

AXEL CLEEREMANS

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Work address Consciousness, Cognition & Computation Group (CO3)
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Date and place of birth March 5, 1962; Bruxelles (Belgium)

Citizenship Belgian

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MAJOR RESEARCH INTERESTS

Consciousness, implicit learning, models of conscious and unconscious cognition, relationships between consciousness and cognitive control, connectionist/neural network modeling of cognitive processes, sequence learning, change blindness, action, free will, decision-making.

DEGREES HELD

2001 **Agrégation de l'Enseignement Supérieur**, Université Libre de Bruxelles

Dissertation: "Learning and consciousness: A graded, dynamic perspective"
Examiners: A. Azzi, P. Eelen, D. Holender, G. Karnas, J. Morais, P. Perruchet, M. Radeau.

- 1991** **Ph.D., Cognitive Psychology**, Carnegie Mellon University
Dissertation: “Mechanisms of implicit learning: A parallel distributed processing model of sequence acquisition” (Advisor: J.L. McClelland)
Examiners: P. Carpenter, D. Touretzky, A.S. Reber.
- 1989** **M.S., Cognitive Psychology**, Carnegie Mellon University
Advisors: L.M. Reder, J.L. McClelland.
- 1986** **Licence en Sciences Psychologiques et Pédagogiques**, Université Libre de Bruxelles
Dissertation: “Implicit and explicit knowledge in the control of complex systems: An exploratory study” (Advisor: G. Karnas)
Examiners: P. Bertelson, J. Alégria.
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POSITIONS HELD

- 2006 —** **Research Director**, National Fund for Scientific Research
Consciousness, Cognition & Computation Group, Université Libre de Bruxelles
- 2002 — 2006** **Senior Research Associate**, National Fund for Scientific Research
Séminaire de Recherche en Sciences Cognitives, Université Libre de Bruxelles
- 2001 — 2002** **Visiting Scholar**
Department of Psychology, University of Colorado at Boulder
- 1995 —** **Chargé de Cours (partim)**, Université Libre de Bruxelles
Faculté de Philosophie et Lettres
- 1993 — 2002** **Research Associate**, National Fund for Scientific Research
Séminaire de Recherche en Sciences Cognitives, Université Libre de Bruxelles
- 1991 — 1993** **Senior Research Assistant**, National Fund for Scientific Research
Laboratoire de Psychologie Industrielle et Commerciale, Université Libre de Bruxelles
- 1991 — 1991** **Post-doctoral Associate**, Carnegie Mellon University
Department of Psychology
- 1986 — 1990** **Research Assistant**, National Fund for Scientific Research
10/86 — 08/87: Laboratoire de Psychologie Industrielle et Commerciale, Université Libre de Bruxelles
10/88 — 09/90: Department of Psychology, Carnegie Mellon University
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HONORS & AWARDS

- 2020 — 2021** **Elected President** of the Association for the Scientific Study of Consciousness.
- 2016** **Evens Foundation Science Prize 2016** to Emilie Caspar, Julia Christensen, **Axel Cleeremans** & Patrick Haggard for our work on

sense of agency under coercion (Caspar et al., 2016).

- 2016** **Emilie Caspar** (supervisor: Cleeremans) awarded the “Prix de Psychologie” from the Royal Academy of Belgium for her Ph.D. thesis on sense of agency
- 2015** **Laureate of the F.R.S.-FNRS 2010-2015 Quinquennial Prize “Ernest-John Solvay” for the Human Sciences**
- 2015 – 2020** **Nominated Senior Fellow** of the Canadian Research Institute for Advanced Research (**CIFAR**), Brain, Mind, and Consciousness Program
- 2014** **Holder of the Francqui Chair** (“Chaire Francqui au titre belge”) at the Université de Liège
- 2011** **Laureate of the CHAOS Award 2011.**
- 2010** **Elected Fellow** of the Association for Psychological Science
- 2009-2010** **Elected president** of the European Society for Cognitive Psychology
- 2009 —** **Elected member of the Royal Academy of Sciences, Letters and Fine Arts of Belgium**
- 2005-2008** **Elected president** of the Belgian Association for Psychological Science
- 2000** **Arnaud Destrebecqz** (supervisor: Cleeremans) awarded the “Prix de Psychologie” from the Royal Academy of Belgium for his Ph.D. thesis on sequence learning
- 1995** **Nominated member of the IUPsyS “Young Psychologists Program”** by the Belgian Society of Psychology
- 1987 – 1988** **Francqui Fellow of the Belgian American Educational Foundation**
- 1987** Laureate of the “Concours des Bourses de Voyages du Ministère de la Communauté Française de Belgique”

FUNDING

- Currently** **Co-Principal Investigator, ULB ARC Advanced Grant**
2018-2023 700K grant with co-PI Pr. Marco Dorigo titled “Self-organised hierarchical control for Swarm Intelligence systems”.
- 2014-2019** **Co-Principal Investigator, Excellence Program “Plan Marshall 2.vert” Grant**
2014-2019 €2.7M (ULB share: €620K) Walloon Region Grant titled “FOOD4GUT – Approche nutritionnelle novatrice de l’obésité basée sur l’apport en aliments coliques: aspects biologiques, comportementaux et sociétaux”.
- 2013-2019** **Principal Investigator, ERC Advanced Grant**

2014-2019 €2.3M European Research Council Grant titled “The Radical Plasticity Thesis”.

2012-2017

Coordinator, IUAP Program P7/33

2012-2017 €2.5M (ULB share: €900K) BELSPO Federal “Interuniversity Poles of Attraction” grant titled “Mechanisms of conscious and unconscious learning” (co-PIs: J. De Houwer, M. Brass—UGent, B. Rossion—UCL, T. Beckers—KUL, P. Haggard—UCLondon, Z. Dienes, USussex).

2007-2011

Chair, COST ACTION BM0605

2007-2011 European COST ACTION dedicated to “Consciousness: A transdisciplinary, integrated approach”. Total budget spent: €500.000.

2006-2011

Coordinator, Concerted Research Action

2006-2011 €640.000 “Concerted Research Action” grant for a research project titled “Culturally Modified Organisms: What it means to be human in the age of culture (co-PIs: R. Kolinsky, O. Klein, A. Content, M. Dominicy, J.-N. Missa, J. Leybaert).

2006-2010

Co-Principal Investigator

2006-2010 €2.1M (ULB share: €400.000) European Commission NEST PATHFINDER grant for a research project titled “Measuring Consciousness—Bridging the Mind-Brain Gap” (co-PIs: A.K. Engel, G. Rees, K. Vokeley, M. Overgaard, S. Laureys).

2002 – 2006

Co-Principal Investigator

2002-2006 €52.000 National Fund for Medical Research grant for a research project titled “Neural bases for dissociations between implicit and explicit memory: A functional imaging exploration” (co-PI: P. Maquet).

2002 – 2006

Co-Principal Investigator

2002-2006 €640.000 Institutional grant in support of a project titled “Perception, Intention and Action: A transdisciplinary approach to cognitive representation” (co-PI: M. Dominicy).

2000 – 2004

Co-Principal Investigator

2000-2004 €172.000 grant in the context of a “Training and Mobility” European Commission project titled “Basic mechanisms of learning and forgetting in natural and artificial systems” (Coordinator: R.M. French).

2000 – 2001

Co-Principal Investigator

National Fund for Medical Research grant for a research project titled “Dissociation des processus conscients et inconscients lors de l’apprentissage de séquences chez l’humain: Exploration fonctionnelle en tomographie par émission de positons” (co-PIs: P. Maquet, M. Van Der Linden).

1997 – 2001

Principal Investigator

€300.000 institutional grant in support of the “Interuniversity poles of attraction” federal research program for a project titled “Empirical investigation and Computational Modeling of Learning in Dynamic Control Situations”.

1995 – 1998

Principal Investigator

€26.000 National Fund for Scientific Research grant for a project titled “Theory of the mechanisms underlying performance in various experimental situations involving elementary learning processes: Development of a new computational model”.

- 1993 – 1997** **Co-principal Investigator**
€37.000 National Fund for Scientific Research project entitled “Mechanisms of Implicit Learning: Empirical and simulation studies of processing and acquisition in sequence learning and paired-associates learning situations” (co-PI: A. Content).
- 1993 – 1994** **Consultant**
NSF (USA) project entitled “Implicit learning of sequential inputs: A computational model” (PI: J. Elman).
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TEACHING EXPERIENCE

- Currently** **Co-Instructor (“Titulaire avec le titre de Chargé de cours”)**
Class: “Philosophy of Cognitive Science”, Faculté de Philosophie et Lettres, Université Libre de Bruxelles)
- 1996-2007** **Co-Instructor (“Titulaire avec le titre de Chargé d’Enseignement”)**
Class: Introduction to connectionist modeling (“Introduction aux modèles connexionnistes”, Diplôme d’Etudes Approfondies en Sciences Cognitives, Université Libre de Bruxelles)
- Instructor (“Titulaire avec le titre de Chargé d’enseignement”)**
Class: Learning and development (“Apprentissage et développement”, Diplôme d’Etudes Approfondies en Sciences Cognitives, Université Libre de Bruxelles)
- 1994 – 1995** **Co-Instructor (“Titulaire avec le titre de Suppléant”)**
Class: Questions approfondies de Psychologie Industrielle, Université Libre de Bruxelles)
- 1993 – 1994** **Instructor (“Titulaire avec le titre de Suppléant”)**
Class: Languages and Man-Machine Interactions (“Langages et Dialogues Homme-Machine”, Licence Complémentaire en Sciences du Langage, Université Libre de Bruxelles)
- Co-Instructor**
Course: Travaux pratiques d’Utilisation de la Statistique en Psychologie
- 1990** **Teaching assistant to J. Cohen**
Department of Psychology, Carnegie Mellon University
Class: Introduction to Cognitive Psychology
Duties: Grading, teaching (three lectures on perception and memory), course and evaluation design
- 1989** **Teaching assistant to B. MacWhinney**
Department of Psychology, Carnegie Mellon University
Class: Cognitive Psychology
Duties: Lab supervision, grading, teaching (one lecture on PDP models)
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PROFESSIONAL SERVICE

ADVISING

Ph.D. Student	Completion	Dissertation title
Arnaud Destrebecqz	2000	<i>Mesures directes et indirectes de l'apprentissage implicite.</i>
Maud Boyer	2001	<i>Les mécanismes d'abstraction dans l'apprentissage de séquences: Etudes empiriques et modélisation.</i>
Nicolas Schmidt	ABD	<i>(Implicit learning and amnesia)</i>
Michael Dubois	ABD	<i>(Skill acquisition)</i>
Dionyssios Theofilou	ABD	<i>(Forward models of sequence learning)</i>
Vinciane Gaillard	2007	<i>Relations entre conscience et contrôle dans l'apprentissage de séquences: Une approche intégrée</i>
Cédric Laloyaux	2007	<i>Sensitivity to changes with and without awareness: An empirical investigation</i>
Muriel Vandenberghe	2007	<i>Les processus d'apprentissage préservés dans l'amnésie : Etude neuropsychologique et cognitive</i>
Antoine Pasquali	2009	<i>Learning with and without consciousness</i>
Ana Franco	2012	<i>Impact de l'expertise linguistique sur le traitement statistique de la parole</i>
Damien Brevers	2013	<i>No more bets! Neurocognitive exploration of pathological gambling</i>
Robert Reuter	2013	<i>Direct and indirect measures of learning in visual search.</i>
Astrid Vermeiren	2013	<i>Underlying mechanisms of conscious perception.</i>
Stéphane Doyen	2014	<i>Amorçage social: Mythe ou réalité?</i>
Anne Atas	2014	<i>Learning and Control: The temporal dynamics of processing with and without awareness</i>
Pedro Magalhaes	2014	<i>Hypnosis, suggestion & the placebo effect</i>
Bert Windey	2014	<i>Is Consciousness graded or dichotomous? A level of processing account.</i>
Julien Nicaise	2015	<i>Emergence et evolution du concept de conscience mentale</i>
Emilie Caspar	2015	<i>What governs our sense of being an agent? An experimental and electrophysiological approach of how disturbances in the intention-action-outcome chain modulate sense of agency</i>
Estibaliz San Anton	2018	<i>Association or propositions: Exploring the dynamics of the relationships between behaviour and consciousness</i>
Irène Cogliati Dezza	2018	<i>"Vanilla, Vanilla ... but what about Pistachio?" A computational cognitive clinical neuroscience approach to the Exploration-Exploitation dilemma</i>
Maité Camara Lopez	2018	<i>Développement d'un outil d'évaluation neuropsychologique en réalité virtuelle: Cas spécifique de l'évaluation de la mémoire prospective.</i>
Dalila Achoui	2019	<i>Consciousness and perceptual decision-making: The relationship between first- and second-order processing.</i>
Arnaud Beauny	exp. 2019	<i>ERC project</i>
Santiago Munoz Moldes	2019	<i>Learning, self-awareness, and the body: A cognitive neuroscience approach to learning from biofeedback</i>
Laurène Vuillaume	2019	<i>Beliefs, Bodily-Self, and Consciousness</i>
Charlotte Vandendriessche	exp. 2021	<i>The stream of consciousness</i>
Post-doctoral Fellows	Dates	Current position
Arnaud Destrebecqz	2000-2004	Assistant Professor, ULB (BE)
Maud Boyer	2001-2002	Private Sector (BE)

Andrew Bremner	2004-2005	Lecturer, Goldsmiths College (UK)
Jean-Christophe Sarrazin	2005-2007	Office of Aerospace Research (FR)
Stéphanie Chambaron	2006-2007	Research Officer, INRA (FR)
Bert Timmermans	2007-2009	Lecturer, University of Aberdeen (UK)
Bruno Berbérian	2007-2009	Office of Aerospace Research (FR)
Vinciane Gaillard	2009-2014	Director, European University Association (BE)
Gaëtane Deliëns	2013-2014	Post-doctoral fellow, ACTE lab (ULB)
Martijn Wokke	2014-2017	Post-doctoral fellow, CUNY (USA)
Filip Van Opstal	2014-2016	Assistant Professor, UvA (NL)
Nura Sidarus	2016-2016	Lecturer, Royal Holloway (U.K.)
Julie Bertels	2016-2017	Post-doctoral fellow, LCFC (ULB)
Jean-Rémy Martin	2017-2019	ERC post-doctoral fellow
Adélaïde de Heering	2017-2019	ERC post-doctoral fellow
Lars Keuninck	2018-2019	IMEC engineer

SUPERVISION

- ⊙ Yearly supervision of about 2-4 undergraduate thesis projects (“Mémoires”) since 1993.
- ⊙ Member of the jury on 67 Ph.D., HDR, Habilitation or A.E.S. dissertations:
 - **1995: Khaled Fezzani**, “Contribution expérimentale à l’étude des demandes attentionnelles de l’apprentissage implicite d’une séquence visuo-spatiale”, Université de Toulouse (France), November 2nd.
 - **1996: Theano Anastasopoulou**, University College London (U.K.), April 15th.
 - **1999: Jacques Sougné**, “INFERNET: A neurocomputational model of binding and inference”, Université de Liège (Belgium)
 - **2000: Sébastien Pacton**, “L’apprentissage implicite en dehors du laboratoire: Le cas des régularités orthographiques”, Université de Bourgogne (France), December 22nd.
 - **2001: Johan Bollen**: “A cognitive model of adaptive web design and navigation”, Vrije Universiteit Brussel (Belgium)
 - **2002: Ingmar Visser**: “Hidden Markov models and neural networks in the psychology of learning”, Universiteit Amsterdam (The Netherlands), May 9th.
 - **2003: Sophie Lambert**, “L’impact des facteurs socio-cognitifs dans la modulation de l’effet d’accentuation: Une analyse exploratoire”, Université Libre de Bruxelles, January 10th.
 - **2003: José Quesada**, “Latent Problem Solving Analysis (LPSA): A computational theory of representation in complex, dynamic problem solving tasks, Universidad de Granada (Spain), May 6th.
 - **2003: Jean-Christophe Sarrazin**: “La mémoire spatio-temporelle : Variabilité de la réponse et reproductibilité du souvenir”, Université de la Méditerranée (France), October 24th.
 - **2003: Olivia Trinquard**: “Apprentissage Implicite, Langage et Attention : Le cas des dépendances discontinues”. Université de Bourgogne (France), November 24th.
 - **2003: Gustav Kuhn**: « Implicit learning of musical structures », University of Sussex (UK), December 10th.
 - **2004: Jean-Marc Blanc**: “Traitement de la prosodie par un réseau récurrent temporel”, Université Lumière Lyon II (France), April 6th.
 - **2004: Leonora Wilkinson**: “Methods of assessing unconscious processes in implicit sequence learning”, University College London (UK), December 8th.
 - **2005: Natacha Deroost**, “Perceptual and motor contributions to sequence learning in serial reaction time tasks”, Vrije Universiteit Brussel (Belgium), May 25th.
 - **2005: Jean-Noël Missa** (A.E.S. thesis), “Naissance de la Psychiatrie Biologique”, Université Libre de Bruxelles (Belgium), May 24th.
 - **2005: Stéphanie Chambaron-Ginhac**, “Apprentissage implicite de régularités: Mise en évidence d’une différence d’apprentissage entre tâches motrices continues et discrètes”, Université de Bourgogne (France), December 9th.
 - **2006: Elizabeth Norman**: “Gut feelings and unconscious thought: An exploration of fringe consciousness in implicit cognition”, University of Bergen (Norway), March 30th.
 - **2006: Lionel Naccache** (HDR thesis), “Vers une neurophysiologie cognitive de la conscience”, Université Pierre et Marie Curie Paris VI (France), June 20th.
 - **2006: Régine Kolinsky** (A.E.S. Thesis), “Niveaux de traitement des mots parlés”. Université Libre de Bruxelles, Faculté des Sciences Psychologiques et de l’Education, March 15th.

- **2006: Nicolas Ruh**, “Acquisition and control of sequential routine activities; Modelling and empirical studies”, Birkbeck College, University of London (U.K.), March 16th.
- **2006: Bruno Berbérian**, “L’étude de la variabilité dans le codage mnésique: une approche dynamique de la mémoire”, Université de la Méditerranée Aix-Marseille II (France), May 25th.
- **2007: Ljubisa Placé**, “Caractéristiques des processus conscients et non-conscients à travers deux paradigmes de la psychologie cognitive”, Université de Rennes 2 — Haute Bretagne (France), September 10th.
- **2007: Hélène Gauchou**, “Informations relationnelles en mémoire à court terme visuelle”, Université Paris V (France), December 13th.
- **2008: Christel Devue**, “The visual processing of self-referential stimuli: Do we process our own face differently from other faces?”, Université de Liège (Belgium), April 18th.
- **2008: Maximilien Chaumon**, “Apprentissage implicite du contexte visuel et guidage de la perception: Expériences MEG et EEG intracrâniens”, Université Pierre et Marie Curie (Paris, France), June 3rd.
- **2008: Sophie Portrat**, “Mémoire de travail et fonctions exécutives: L’apport du modèle de partage temporel des ressources”, Université de Bourgogne (Dijon, France), October 17th.
- **2008: Dominique Ginjac**, “Adéquation Algorithme Architecture: Aspects logiciels, matériels et cognitifs”, Thèse d’Habilitation à Diriger des Recherches, Université de Bourgogne (Dijon, France), December 9th.
- **2009: Nicolas Stefaniak**, “Rôle des mécanismes d’apprentissage implicite dans l’acquisition de nouvelles connaissances sémantiques”, Thèse de Doctorat, Université de Liège (Liège, Belgique), May 6th.
- **2009: Julie Bertels**, “Influence de la valence émotionnelle de stimuli auditifs sur l’orientation de l’attention”, Thèse de Doctorat, Université Libre de Bruxelles (Bruxelles, Belgique), May 11th.
- **2009: Elian de Kleine**, “Cognitive Control of sequential behavior”, Ph.D. Thesis, Universiteit Twente (The Netherlands), June 18th.
- **2009: Ryan Scott**, “The role of familiarity in implicit learning and the emergence of conscious knowledge”, DPhil Thesis, University of Sussex (England), September 8th.
- **2009: Vincent Roger de Gardelle**, “Quand la perception devient consciente: Intégration contextuelle d’une information perceptive dégradée”, Thèse de Doctorat, Université Paris VI (France), September 25th.
- **2009: Manuel Schabus**, “Residual Cognitive Processing in Altered States of Consciousness”, Habilitationsschrift, Universität Salzburg (Austria), September 30th.
- **2009: Yvonne Delevoeye-Turell**, “Traces efférentes et Attention motrice pour un sens pré-réflexif d’Agentivité”, Thèse d’Habilitation à diriger des recherches, Université Lille III (France), October 23rd.
- **2009: Utku Salihoglu**, “Toward a brain-like memory with recurrent neural networks”, Thèse de Doctorat (Sciences), Université Libre de Bruxelles (Belgique), November 24th.
- **2009: Laurent Waroquier**, “The merits of first impressions and of conscious deliberation in complex decision making”, Thèse de Doctorat (Sciences Psychologiques), Université Libre de Bruxelles (Belgique), December 17th.
- **2010: Carine Signoret**, “Exploration des mécanismes non-conscients de la perception de la parole: Approches comportementales et électroencéphalographiques”, Thèse de Doctorat (Mention Psychologie Cognitive), Université Lumière Lyon II (France), June 10th.
- **2010: Lionel Brunel**, “Vers une réintroduction de l’efficacité mnésique: L’apport des modèles à traces multiples”. Thèse de doctorat (mention Psychologie Cognitive), Université Lumière Lyon II (France), September 20th.
- **2010: Devin Blair Terhune**, “Dissociation and heterogeneity in high hypnotic suggestibility”, Ph.D. Thesis (Psychology), University of Lund (Sweden), September 22nd.
- **2011: Marie Aurélie Bruno**, “Etude comportementale, métabolique et électrophysiologique du fonctionnement cérébral après le coma”, Ph.D. Thesis (Medical Sciences), University of Liège (Belgium), May 10th.
- **2011: Nicolas Rougier**, “Fondements biologiques pour le calcul distribué, numérique, et adaptatif”, Thèse d’Habilitation à Diriger les Recherches, Université Nancy 2 (France), May 19th.
- **2011: Alexandre Lang**, “Rôle des régularités perceptives dans l’apprentissage implicite d’un mouvement répété”. Thèse de doctorat — mention Psychologie Cognitive (directeur: Olivier Gapenne), Université de Technologie de Compiègne, Compiègne (France), November 29th.
- **2011: Rémy Schmitz**, “Asymétries hémisphériques cérébrales dans la pseudonégligence, l’induction de faux souvenirs et l’apprentissage implicite: Une approche cognitive neuropsychologique”, Thèse de doctorat en Sciences Psychologiques (directeur: Philippe Peigneux), Université Libre de Bruxelles, Bruxelles (Belgique), December 10th.
- **2012: David Marchiori**, “Size matters! The joint influence of the size of portion, food item and container size on food intake”, Thèse de doctorat en Sciences Psychologiques (directeur: Olivier Klein), Université Libre de Bruxelles, Bruxelles (Belgique), January 30th.
- **2012: Athena Demertzi**, “Ain’t no rest for the brain: Neuroimaging and neuroethics in dialogue with patients with disorders of consciousness”. Thèse de doctorat en Sciences Médicales (directeur: Steven Laureys), Université de Liège, Liège (Belgique), May 8th.

- **2012: Kevin d’Ostilio**, “Substrats cérébraux des processus moteurs automatiques et inconscients”. Thèse de doctorat en Sciences Psychologiques (directeurs: Fabienne Collette & Gaëtan Garraux), Université de Liège, Liège (Belgique), October 3rd.
- **2013: Daphné Coomans**, “Perceptual sequence learning unfolded: Key characteristics of a subtle learning process”. Thèse de doctorat en Sciences Psychologiques (directeurs: Nathacha Deroost, Eric Soetens & Eva Van den Bussche), Vrije Universiteit Brussel, May 27th.
- **2013: Stephen Withmarsh**, “Non-reactivity and metacognition in mindfulness”. Doctoral Thesis in Psychological Sciences (directors: H.K. Bradendregt & O.Jensen), Radboud Universiteit Nijmegen (The Netherlands), August 20th.
- **2013: Pierre Perruchet**, Thèse d’Habilitation au départ à la retraite, Université de Bourgogne, Dijon (France), December 3rd.
- **2013: Florence Campana**, “L’impact de l’organisation hiérarchique du système visuel sur la conscience: Etude empirique et implications théoriques sur l’expérience subjective”, Thèse de doctorat Mention Sciences Cognitives, Université Pierre et Marie Curie, Paris (France), December 10th.
- **2014: Anna Marie Armstrong**. “Unconscious Processing at the Subjective Threshold – Semantic Comprehension?” D.Phil. Thesis in Psychology (Director : Pr. Zoltan Dienes), University of Sussex (Brighton, U.K.), February 17th.
- **2014: Henk Pretorius**. “Is conscious perception a graded or dichotomous phenomenon?” D.Phil. Thesis in Psychology, University of Cape Town (Cape Town, South Africa), December.
- **2015: Moos Peeters**. “Attention, awareness, and prediction: Lessons from classical conditioning, disorders of consciousness, and positive rewards” D.Phil. Thesis in Psychology (Director : Pr. Tristan Beckinstein), University of Cambridge (Cambridge, UK), January 23rd.
- **2015: Mads Jensen**. “The awareness and ownership of intentional actions”. Ph.D. thesis in Psychology (Director : Pr. Morten Overgaard), Aarhus University (Aarhus, Denmark), April 20th.
- **2015: Gabriel Reyes**. “Introspection of complex cognitive processes”. Thèse de doctorat Mention Sciences Cognitives (Director : Pr. Jérôme Sackur), Université Pierre et Marie Curie (Paris, France), September 29th.
- **2016: Markus Vidding**. “Investigating free will in cognitive neuroscience”. Ph.D. thesis in Psychology (Director : Pr. Morten Overgaard), Aarhus University (Aarhus, Denmark), March 9th.
- **2016: Vanessa Charland**. “The exploration of the contents of memories after coma”. Ph.D. thesis in Biomedical Sciences (Director : Pr. Steven Laureys), Université de Liège (Belgium), April 27th.
- **2016: Christian Buc Calderon**. “Temporal dynamics and neural architecture of action selection”. Ph.D. thesis in Psychology (Director : Pr. Wim Gevers), Université Libre de Bruxelles (Belgium), April 19th.
- **2016: Pieter Moors**. “Lauching awareness and chasing consciousness”. Ph.D. thesis in Psychology (Director : Pr. Johan Wagemans), Katholieke Universiteit Leuven (Belgium), May 31st.
- **2016: Nicolas Debue**. “TIC et cognition humaine: Rôle des caractéristiques instrumentales des technologies sur la charge cognitive de l’utilisateur”. Ph.D. thesis in Psychology (Director : Pr. Cécile Vandeleemput), Université libre de Bruxelles (Belgium), December 12th.
- **2017 : Claire Sergent**. Habilitation à diriger des recherches. Université René Descartes, Paris (France), March 29th.
- **2017 : Andres Canales-Johnson**. “The view from within: Functional role of endogenous activity for the state and contents of consciousness”. Ph.D. thesis in Psychology (Director : Pr. Tristan Beckinstein), Cambridge University (U.K.), May 16th.
- **2017: Laurence Questienne**. “Subjective experiences in conflict tasks”. Ph.D. thesis in Psychology (Director : Pr. Wim Gevers), Université libre de Bruxelles (Belgium), October 30th.
- **2017: Martijn Teuchies**, “Interactions of conscious and unconscious processes in decision-making”. Ph.D thesis in Psychology (Director : Pr. Marcel Brass), Universiteit Ghent (Belgium), November 16th.
- **2017: Adriano Linzarini**. “Développement du contrôle cognitive: Généralité et automatization des processus inhibiteurs” Ph.D. thesis in Psychology (Director : Pr. Olivier Houdé), Université René Descartes (France), November 17th.
- **2017: Sarah Wannez**. “Améliorer le diagnostic des patients en état de conscience altérée: Une approche comportementale. Ph.D. thesis in biomedical sciences (Director: Pr. Steven Laureys), Université de Liège (Belgium), November 20th.
- **2018 : Jonas Gouraud**. “Mind wandering dynamic in automated environments and its influence on out-of-the-loop situations”. Ph.D. thesis in Cognitive Psychology, Université Aix-Marseille & ONERA (France), November 27th.
- **2019: Riccardo Villa**. “Controlling actions and experiencing control: the influence of movement execution and goal achievement on the Sense of Agency”. Ph.D. Thesis in Psychology and Social Neuroscience, Sapienza Università di Roma (Italy), February 14th.
- **2019: Muss Alexander Igorevich**. “The conceptualization of the model of human in cognitive science. Ph.D. thesis in Philosophical Anthropology. Saint-Petersburg State University (Russian Federation), March 21st.
- **2019: Matthias Michel**. “Une épistémologie de la conscience : Are you experienceed ?” Ph.D. thesis in Philosophy,

La Sorbonne (France), September 3rd.

- **2019 : Helena Cassol.** “Exploration of near-death experience accounts”. Ph.D. thesis in biomedical and pharmaceutical sciences, Université de Liège (Belgium), October 25th.

LEADERSHIP & ADMINISTRATIVE RESPONSABILITIES

2017 —	Director of the ULB Neuroscience Institute (UNI), Université libre de Bruxelles
2015 — 2016	Internal coopted member of the Administration Council , Université Libre de Bruxelles
2014 —	Member of the Research Council , Université Libre de Bruxelles
2014 —	Vice Dean for Research , Faculty of Psychological Science and Education, Université Libre de Bruxelles
2014 — 2019	Member of the Belgian Advisory Committee on Bioethics , Federal Public Service of Public Health, Belgium.
2012 — 2016	Vice-director of the ULB Neuroscience Institute (UNI), Université Libre de Bruxelles
2012 — 2019	Director of the Center for Research in Cognition & Neurosciences (CRCN), Université Libre de Bruxelles
2010 — 2011	Member of the Research Council , Université Libre de Bruxelles
2009 — 2009	Elected effective member of the Administration Council , Université Libre de Bruxelles (substitute 2010-2011)
2003 — 2007	Director of the Doctoral School in Cognitive Sciences , Université Libre de Bruxelles (Director a.i. 1999-2000)
1996 – 2007	Coordinator of the Advanced Degree in Cognitive Science , Université Libre de Bruxelles

CONFERENCES AND WORKSHOPS ORGANIZATION

- ⊙ **Co-Organizer** (with Alain Content) of a Workshop titled “Representation and Process in Implicit Learning” held on May 22, 1995 at the Fondation Universitaire (Brussels) as part of the “Groupes de contact du FNRS: Etude des processus cognitifs” series.
- ⊙ **Main organizer of the 50th Anniversary Meeting of the Belgian Psychological Society, held in Brussels on April 25, 1997.**
- ⊙ **Main organizer of the fourth annual meeting of the Association for the Scientific Study of Consciousness, held in Brussels, June 29—July 2, 2000.**
- ⊙ **Workshop leader**, "Implicit and explicit processes in cognition" workshop delivered for the “Toward a Science of Consciousness” conference, Tucson (USA), April 6, 2002.
- ⊙ **Workshop leader**, "Introduction to connectionist modeling" workshop organized by the Graduate Program in Cognitive Psychology, Swiss National Science Foundation, Bern, February 22—24, 2001.
- ⊙ **Symposium co-chair**, "Nonconscious intelligence: From Natural to Artificial". Symposium organized for the 2001 convention of the Society for the Study of Artificial Intelligence and the Simulation of Behavior (SSAISB) held in York (UK), March 21—24, 2001.
- ⊙ **Member of the programme committee** of the Second European Conference on Cognitive Modeling (ECCM-98), held in Nottingham (U.K.), April 1—4, 1998.

- ⊙ **Member of the scientific programme Committee** of the Sixth Neural Computation and Psychology Workshop (NCPW6), held September 16—18, 2000 at the Université de Liège (Belgium).
- ⊙ **Member of the organizing committee** of the Fourth International Conference on Cognitive Modeling (ICCM-2001), held July 26—28, 2001 at George Mason University (USA).
- ⊙ **Member of the programme committee** of the 23rd Annual Conference of the Cognitive Science Society, held August 1—4, 2001 at the University of Edinburgh (U.K).
- ⊙ **Member of the programme committee** of the 24th Annual Conference of the Cognitive Science Society, held August 7—11, 2002 at George Mason University (USA).
- ⊙ **Member of the programme committee** of the 6th Annual Conference of the Association for the Scientific Study of Consciousness, held May 31—June 3, 2001 at the University of Barcelona (Spain).
- ⊙ **Member of the programme committee** of the 7th Annual Conference of the Association for the Scientific Study of Consciousness, held May 30—June 2, 2003 at the University of Memphis (USA).
- ⊙ **Member of the programme committee** of the 8th Annual Conference of the Association for the Scientific Study of Consciousness, to be held 2004 at the University of Antwerp (Belgium).
- ⊙ **Co-Organizer** (with Erik Myin) of a workshop titled “Space and Time: Between Phenomenology and Neuroscience”, held on November 21st at the Vrije Universiteit Brussel (Belgium).
- ⊙ **Workshop leader**, "A brief introduction to computational modeling in cognitive science" workshop organized at the 1st Workshop on Cognitive and Social Perspectives on (Un)consciousness, Kazimierz Dolny (Poland), February 11-13, 2005.
- ⊙ **Member of the programme committee** of the 10th Annual Conference of the Association for the Scientific Study of Consciousness, held June 23-26, 2006 at the University of Oxford (U.K).
- ⊙ **Member of the programme committee** of the 3rd European Workshop on Movement Science, 2006 in Amsterdam (The Netherlands).
- ⊙ **Member of the programme committee** of the Annual Meeting of the Cognitive Science Society, held 2006 in Vancouver (Canada).
- ⊙ **Workshop leader**, Two lectures delivered during the 2006 Summer School on Executive Control, held in Bernried (Germany), August 7-11, 2006.
- ⊙ **Member of the programme committee** of the “Towards a Science of Consciousness 2007” meeting, July 23-26, 2007 in Budapest (Hungary).
- ⊙ **Member of the scientific committee** of the European Workshop on Movement Science, held May 31-June 2, 2007 in Amsterdam (The Netherlands).
- ⊙ **Member of the scientific committee** of the Annual Meeting of the Belgian Association for Psychological Sciences, held June 1, 2007 in Louvain-La-Neuve (Belgium).
- ⊙ **Member of the organizing committee and of the scientific committee**, 2nd Summer School on Consciousness dedicated to “Consciousness and Action”, held at the Institut d’Etudes Scientifiques, June 4-16, 2007 in Cargèse (Corsica, France).
- ⊙ **Faculty**, 14th International Summer School in Cognitive Science, held July 9-28, New Bulgarian University (Sofia, Bulgaria),
- ⊙ **Member of the scientific committee** of the 13th Annual Meeting of the Association for the Scientific Study of Consciousness, to be held June 2009, Berlin (Germany).
- ⊙ **Main Organizer, COST Action BM0605 First Conference**, held in Ghent (Belgium), November 20-21, 2008.
- ⊙ **Member of the organizing committee and of the scientific committee**, 3rd Summer School on Consciousness dedicated to “Consciousness of Self and Others”, held at the Institut d’Etudes Scientifiques, May 25 - June 4, 2009 in Cargèse (Corsica, France).
- ⊙ **Coordinator**, series of 6 lectures dedicated to "Consciousness" at the **Collège Belgique, Royal Academy of Belgium**, 2010
- ⊙ Member of the scientific committee, International Conference on Language and Recursion, March 14-16, Mons (Belgium), 2011
- ⊙ Member of the scientific committee, Belgian Brain Council 2012
- ⊙ **Co-Organizer** (with Emmanuelle Danblon) of an international Colloquium titled “**Usages et Fonctions de la Rhétorique**”, held at the Université Libre de Bruxelles & at the Académie Royale de Belgique (Belgium), May 16-19, 2013.
- ⊙ **Co-Organizer** (with Viktor Allekhverdov) of an international Colloquium titled “**Implicit Learning: Interactions between consciousness and unconsciousness**”, held at the Faculty of Psychology, Saint-Petersburg State University (Russian Federation), May 12 - 14, 2014.
- ⊙ **Co-Organizer** (with David Carmel) of a plenary symposium titled “**Unconscious perception: Does it exist**,

- and what should we require from evidence?”** for the 18th Annual Meeting of the Association for the Scientific of Consciousness, held in Brisbane (Australia), July 16 -19, 2014.
- ⊙ **Co-Organizer** (with Paul Reber) of a symposium titled **“Implicit learning: Mechanisms, computations, and systems”** for the International Convention of Psychological Science (ICPS), held in Amsterdam (The Netherlands), March 12-14, 2015.
 - ⊙ **Co-Organizer** (with Eva Vandebussche and Olivier Corneille) of a symposium titled **“Consciousness and the Mind’s I: Loops and systems between perception and action”** for the National Committee of Psychological Science, held in Brussels (Belgium), December 1st, 2015.
 - ⊙ **Chair** of a plenary symposium titled **“Linking metacognition, predictive coding, and consciousness”** at the 20th meeting of the Association for the Scientific Study of Consciousness, Buenos Aires (Argentina), June 14-18, 2016.
 - ⊙ **Co-Organizer** (with Alain Content) of a pre-conference satellite symposium titled **“Conscious and unconscious mechanisms of learning”** at the 20th meeting of the European Society of Cognitive Psychology, Potsdam (Germany), September 3rd, 2017.
 - ⊙ **Organizer**, 12th BIAL Foundation symposium titled “Enhancing the mind”, Porto (Portugal), April 4-8, 2018.
 - ▶ **Organizer**, 13th BIAL Foundation symposium titled “The mystery of time”, Porto (Portugal), April 1-4, 2020.

MEDIA

- ⊙ Design and maintenance of several web sites:

1995-2004	Belgian Psychological Society
1997-2000	Faculté des Sciences Psychologiques et de l’Education, Université Libre de Bruxelles
1998-2002	European Society for Cognitive Psychology
2012-	Center for Cognition & Neurosciences
2014-	ULB Neuroscience Institute

CONSULTANCY & SCIENTIFIC ADMINISTRATION DUTIES

- ⊙ External Referee for the Ontario Research Fund (Canada), 2014
- ⊙ External Referee for the ERC Consolidator grants Program, 2014
- ⊙ Expert for the Human Sciences Panel, Fundação para a Ciência e a Tecnologia (Portugal), 2014
- ⊙ External Referee for the H2020 European Commission FET Program, 2014
- ⊙ Expert for the Psychology Panel, Academia of Finland, 2009 (member), 2010, 2011 (**chair**), 2012, 2013
- ⊙ External Examiner for the MSc in Psychological Research, Department of Psychology, University of Wales at Bangor (U.K.), 2002-2005
- ⊙ Referee for the Agence Nationale de la Recherche (France), 2007, 2008, 2009
- ⊙ Reviewer for the New Zealand Antarctic programme (New Zealand), 2007
- ⊙ Referee for the Finnish Academy of Science (Finland), 2006
- ⊙ Expert for MARS Inc., 2006-2008
- ⊙ Expert for the “Meeting of Minds” initiative, 2005-2006
- ⊙ Referee for the Austrian Research Council (Austria), 2006, 2008
- ⊙ Referee for the Nederlandse Organisatie voor Wetenschappelijk Onderzoek (NWO), 2005, 2008
- ⊙ Expert for the King Baldwin Foundation, 2004, 2005
- ⊙ Expert for the ESF Eurocores Program “Consciousness in a Natural and Cultural Context”, 2004
- ⊙ Referee for the Conseil Régional Nord-Pas de Calais (France), 2004
- ⊙ Referee for the Conseil Régional Rhône-Alpes (France), 2004
- ⊙ Expert for the FP6 Infrastructure program (European Commission), 2004-2005
- ⊙ Expert for the FP6 NEST program (European Commission), 2004-2006
- ⊙ Referee for the Swiss National Science Foundation (Switzerland), 2001, 2007, 2009
- ⊙ Expert for the OCDE - CERI programme on “Brain Research and Learning Sciences”, 1999
- ⊙ Referee for the Animal Sciences & Psychology Committee of the Biotechnology and Biological Sciences Research Council (UK)
- ⊙ Referee for the Economic and Social Research Council (UK)
- ⊙ Referee for the Groupement d’Intérêt Scientifique: Sciences de la Cognition (France)
- ⊙ Referee for the Leverhulme Trust (UK)

- ⊙ Referee for the National Science Foundation (USA), 2010
- ⊙ Expert for the Research Promotion Foundation (Cyprus), 2011
- ▶ External Referee for the Human Brain Project SGA3 proposal, 2018

- ⊙ **Member** of the “visitiatiecommissie Psychologie” (Vlaamse Interunivesitaire Raad), 2003
- ⊙ **Member** of the 22nd commission (Psychological Sciences) of the N.F.S.R. (Belgium), 2003-2009
- ⊙ **Member** of the accreditation commission for Cognitive Science (NVAO, The Netherlands), 2004
- ⊙ Member of Scientific Advisory Board, Center for the Study of the Senses, University College London, 2010-
- ⊙ Member of the Jury, Best Thesis Award, **Belgian Association for Psychological Science**, 2010-
- ⊙ Member of the Scientific Advisory Board, **Fondation Wiener-Anspach**, Belgium, 2011-
- ⊙ **Member** of the Scientific Advisory Board for the National Initiative Brain and Cognition (The Netherlands), 2010-2015.
- ⊙ **Member of the scientific board, Cultures d’Europe ASBL**, 2011-2018
- ⊙ **Member of the jury, Heineken Prize**, 2009-2013.
- ⊙ **Chair, William James Prize Committee (members: Giulio Tononi, Daniel C. Dennett, Chris Frith)**, Association for the Scientific Study of Consciousness, 2009-
- ⊙ **Member of the jury, Janet T. Spence Award**, Association for Psychological Science, 2009-
- ⊙ **Member of the Scientific Board, BIAL foundation (Portugal)**, 2012-
- ⊙ **Member of the jury, Belgian American Educational Foundation Alumni Award**, 2012.
- ⊙ **Member of the jury, Jean-Marie Delwart Foundation Prize**, 2016-
- ⊙ **Chair, Organizing Committee of the BIAL foundation meetings**, 2016-
- ▶ **Panel Member, ERC SH4 The human mind and its complexity**, 2018
- ▶ **Panel Member, F.R.S-FNRS SHS2 commission**, 2019
- ▶ **Chair, Evens Science Prize jury**, 2020

EDITORIAL ACTIVITIES

- ⊙ 2009- **Field Editor-in-Chief**, *Frontiers in Psychology*
- ⊙ 2009-2011 Member of the Editorial Board of the "Advances in Consciousness Research" book series
- ⊙ 2009-2017 Associate Editor, *Consciousness & Cognition*
- ⊙ 2008-2009 Member of the editorial board of *Psyche*
- ⊙ 2005-2009 Consulting Editor, *European Journal of Cognitive Psychology*
- ⊙ 2000-2005 **Editor**, *Psychologica Belgica*
- ⊙ 1998-2009 Action Editor, *Journal of Complex Systems Research*
- ⊙ 1998-2000 Associate Editor for *Current Psychology of Cognition/Cahiers de Psychologie Cognitive*
- ⊙ 1998-2001 Series Editor, *Implicit cognition and consciousness* book series, Kluwer Academic Publishers
- ⊙ 1997-2000 Associate Editor for the *Quarterly Journal of Experimental Psychology*
- ⊙ 1997-2000 Associate Editor for the *European Journal of Cognitive Psychology*
- ⊙ 1997-1999 Consulting Editor for the *Journal of Experimental Psychology: Learning, Memory, and Cognition*
- ⊙ 1996-1999 Member of the editorial board of *Psychologica Belgica*
- ⊙ 1995-1998 Member of the editorial board of *Cahiers de Psychologie Cognitive*
- ⊙ 1994- *Behavioral and Brain Sciences* Associate

⊙ Ad Hoc Referee for:

Behavioral and Brain Sciences, Cognitive Psychology, Cognitive Science, Connection Science, Current Biology, European Bulletin of Cognitive Psychology, International Journal of Psychology, Machine Learning, Memory and Cognition, Neural Computation, Psychonomic Bulletin & Review, IEEE Transactions on Neural Networks, L’Année Psychologique, Organizational Behavior and Human Decision Processes, Consciousness and Cognition, Psychological Research, Neuropsychologia, Psychological Science, International Joint Conference on Artificial Intelligence 99, Cognition, Psychological Review, Psychological Bulletin, Cognitive

Neuropsychology, Psychology and Aging, Trends in Cognitive Sciences, Journal of Gerontology, AI Magazine, Neuropsychopharmacology, Philosophical Transactions of the Royal Society B, Experimental Brain Research, Science, Cognitive Processing, Neurophysiology, Human Brain Mapping, Journal of Theoretical Biology, Trends in Neurosciences, Journal of Vision

SCIENTIFIC SOCIETIES

- ⊙ Lifeboat Foundation (member of the Scientific Advisory Board)
 - ⊙ National Committee for the Psychological Sciences, Royal Academy of Arts and Sciences (deputy-secretary general, 2001-2011, **Secretary-General, 2011-**)
 - ⊙ Experimental Psychology Society (member)
 - ⊙ **Belgian Association for Psychological Science (president-elect, 2005-2008, past-president, 2008-2011)**
 - ⊙ Belgian Psychological Society (secretary-general 1996-1999; vice-president 1999-2005)
 - ⊙ **European Society for Cognitive Psychology** (full member 1993-, executive committee member 2005-2008, **president, 2009-2010**)
 - ⊙ Cognitive Science Society (member)
 - ⊙ American Psychological Society (member)
 - ⊙ **Association for the Scientific Study of Consciousness** (member 1996-; elected member of the executive board, 1999-2009, 2012-2018; **President, 2020.**)
-

VISITS AND RESEARCH TRIPS

- ⊙ 2013 Saint-Petersburg State University: Department of General Psychology (V. Allakverdiov)
 - ⊙ 2005 Université de la Méditerranée: Unité Mouvement et Perception (M.-D. Giraud): 2 months
 - ⊙ 2001 University of Colorado at Boulder: Department of Psychology (R.C. O'Reilly): 12 months
 - ⊙ 2000 University College London: Department of Psychology (D. Shanks)
 - ⊙ 1998 Université de Bourgogne: LEAD (P. Perruchet)
 - ⊙ 1996 University College London: Department of Psychology (D. Shanks)
 - ⊙ 1995 Université de Bourgogne: LEAD (P. Perruchet)
 - ⊙ 1993 University of Aarhus: Department of Psychology (S. Chaiklin & C. Sinha)
 - ⊙ 1993 University of Oregon: Department of Psychology (S.W. Keele)
 - ⊙ 1993 City University of New York: Department of Psychology (A.S. Reber)
 - ⊙ 1993 Carnegie Mellon University: Department of Psychology (J.L. McClelland)
 - ⊙ 1993 University of California: San Diego, Center for Research on Language (J.L. Elman)
 - ⊙ 1993 Université de Genève (U. Frauenfelder)
 - ⊙ 1992 MRC APU, Cambridge (R. Ward & D. Shanks)
 - ⊙ 1991 University of California: San Diego, Center for Research on Language (J.L. Elman)
 - ⊙ 1987 Oxford University, Department of Psychology (D.E. Broadbent)
-

PUBLICATIONS

BOOKS (1)

1. **Cleeremans, A.** (1993). *Mechanisms of Implicit Learning: Connectionist Models of Sequence Processing*. Cambridge, MA: MIT Press/Bradford Books.
2. **Cleeremans, A.** (under contract). *Being Virtual*. Oxford University Press.
3. **Cleeremans, A.** & Richelle, M. (under contract). *La conscience* (provisional title). Mardaga.

EDITED BOOKS (4)

4. Bayne, T., **Cleeremans, A.**, & Wilken, P. (2009). *The Oxford Companion to Consciousness*. Oxford: Oxford University Press.
5. **Cleeremans, A.** (2003). *The Unity of Consciousness: Binding, Integration, and Dissociation*. Oxford: Oxford University Press.
6. French, R.M., & **Cleeremans, A.** (2002). *Implicit Learning and Consciousness: An empirical, philosophical and computational consensus in the making*. Hove: Psychology Press.
7. **Cleeremans, A.**, Kuvaldina, M., & Allakhverdov, V. (2019). *Implicit Learning: Fifty years on*. Hove: Routledge.

EDITED SPECIAL ISSUES OF JOURNALS AND PROCEEDINGS (6)

8. Taylor, J.G., Freeman, W., & Cleeremans, A. (2007). *Brain and Consciousness*, Special issue of *Neural Networks*.
9. Altmann, E. M., **Cleeremans, A.**, Schunn, C. D., & Gray, W. D. (2001). *Fourth International Conference on Cognitive Modeling*. Mahwah, NJ: Erlbaum.
10. Lewicki, P., & **Cleeremans, A.** (2001). Proceedings of the AISB'01 Symposium on Nonconscious Intelligence: From Natural to Artificial. Society for the Study of Artificial Intelligence and the Simulation of Behavior, 81 pp.
11. **Cleeremans, A.** (2000). Proceedings of the fourth Annual Meeting of the Association for the Scientific Study of Consciousness. Special issue of *Consciousness and Cognition*, 9 (2), 102 pp.
12. **Cleeremans, A.**, & Content, A. (1997). *Current directions in implicit learning*. Special issue of *Psychologica Belgica*, 37.
13. **Cleeremans, A.**, Kolinsky, R., & Mousty, P. (1997). *Proceedings of the 50th Anniversary Meeting of the Belgian Psychological Society*. Brussels: The Belgian Psychological Society.

BOOK CHAPTERS (28)

14. **Cleeremans, A.** (2018). Open Access. In Robert J. Sternberg (Ed.), *Guide to Publishing in Psychology Journals* (2nd. Ed.). Cambridge University Press, pp. 238-250.
15. Vuillame, L., & **Cleeremans, A.** (2017). La puissance de la conscience : suggestion, placebo et hypnose. In C. Courtet, M. Besson, F. Lavocat & A. Viala (Eds.), *Violence et passion : Rencontres Recherche et Création du Festival d'Avignon*, Paris : CNRS Editions, pp. 203-216.
16. Rigoni, D., **Cleeremans, A.**, Brass, M. (2017). Causes and consequences of the Belief in Free Will. In C.M. Zedelius, B.C.N. Müller, J.W. Schooler (Eds.), *The Science of Lay Theories: How Beliefs shape our Cognition, Behavior, and Health.*, Springer International, pp. 229-242. [DOI](#)
17. **Cleeremans, A.** (2017). As above, so below: Tangled loop between consciousness and the unconscious. In Z. Radman (Ed.), *Before consciousness: In search of the fundamentals of mind*. Exeter: Imprint Academic, 83-105.
18. Camara Lopez, M., & **Cleeremans, A.** (2016). Intérêts et limites de la réalité virtuelle en revalidation neuropsychologique. In X. Seron & M. Vanderlinden (Eds.), *Traité de Neuropsychologie Clinique de l'Adulte, Tome 2 : Revalidation*. Louvain-La-Neuve : De Boeck, pp. 389-410.
19. Onnis, L., Destrebecqz, A., Christiansen, M.H., Chater, N., & **Cleeremans, A.** (2015). Implicit learning of non-adjacent contingencies: A graded, associative account. In P. Rebuschat. (Ed.), *Implicit and Explicit learning of languages*. Amsterdam/Philadelphia: John Benjamins Publishing, pp. 213-245.
20. Timmermans, B., & **Cleeremans, A.** (2015). How can we measure awareness? An overview of current methods. In M. Overgaard (Ed.), *Behavioural Methods in Consciousness Research*, Oxford: Oxford University Press, pp. 21-46.
21. **Cleeremans, A.** (2015). Conscience Artificielle. In Missa, J.-N., Hottois, G., & Perbal, L. *L'humain et ses préfixes*. Paris: Vrin, pp. 223-241.

22. Doyen, S., Klein, O., Simons, D., & **Cleeremans, A.** (2014). On the other side of the mirror: Priming in cognitive and social psychology. In D.C. Molden (Ed.), *Understanding priming effects in social psychology*. New York: Guilford Press, pp. 14-34.
23. Legrain, L., & **Cleeremans, A.** (2012). Conscience, conscience de soi, et conscience d'autrui. In S. Brédart & M. Vanderlinden (Eds.), *Identité et Cognition. Apports de la psychologie et de la neuroscience cognitive*, 15-33. De Boeck
24. **Cleeremans, A.** (in press). Learning and consciousness: Explorations with metacognitive networks. In E. Ribes Inesta & J. Burgos (Eds.), *Consciousness, Perception and Behavior: Conceptual, Theoretical, and Methodological Issues (Proceedings of the 11th Biannual symposium on the science of Behaviour)*, Universidad de Guadalajara, pp. 43-77.
25. **Cleeremans, A.** (2012). Le concept de liberté à la lumière des neurosciences contemporaines. *Bulletin de la Classe des Lettres, Académie Royale de Belgique*, 6ème série, Tome XXII, pp. 147-162.
26. Vandenberghe, M., Michiels, S., Féry, P., **Cleeremans, A.**, & Bier, J.C. (2011). In A.M. Columbus (Eds.), *Advances in Psychology Research*, 82. Nova Science Publishers.
27. Chambaron-Ginhac, S., Berbérian, B., Delbecq, L., Ginhac, D., & **Cleeremans, A.** (2009). Implicit motor learning in discrete and continuous tasks: Toward a possible account of discrepant results. In L.T. Pellegrino (Ed.), *Handbook of Motor Skills: Development, impairment and therapy*, Nova Science Publishers, pp. 139-155.
28. **Cleeremans, A.** (2009). Bewusstsein: Die These der radikalen Plastizität. In M. Jung & J.-C. Heilinger (Eds.), "Funktionen des Erlebens", De Gruyter (Berlin), pp.93-120.
29. **Cleeremans, A.** & Dienes, Z. (2008). Computational Models of Implicit Learning. In R. Sun (Ed.), *The Cambridge Handbook of Computational Modeling*, Cambridge, MA: Cambridge University Press, pp. 396-421.
30. **Cleeremans, A.** (2006). Conscious and unconscious cognition: A graded, dynamic perspective. In Q. Jing, M.R. Rosenzweig, G. d'Ydewalle, H. Zhang, H.-C. Chen & K. Zhang (Eds.), *Progress in Psychological Science Around the World Volume I: Neural, Cognitive, and Developmental Issues (Proceedings of the 28th International Congress of Psychology)*, Hove, UK: Psychology Press, pp. 401-418.
31. **Cleeremans, A.** (2005). L'unité de la conscience. In M. Cazenave (Ed.), *De la science à la philosophie: Y a-t-il une unité de la connaissance?*, Paris: Albin Michel, pp. 147-171.
32. Peigneux, P., Laureys, S., **Cleeremans, A.**, Maquet, P. (2003) Cerebral correlates of memory consolidation during human sleep: Contributions of functional neuroimaging. In : P. Maquet, C. Smith & B. Stickgold (Eds.), *Sleep and Brain Plasticity*. London : Oxford University Press, pp. 209-224.
33. **Cleeremans, A.** (unpublished). Hans le Malin: Les Sciences Cognitives à la croisée des chemins. In *Rencontres en Psychologie*, Éditions de l'Université Libre de Bruxelles.
34. Destrebecqz, A., & **Cleeremans, A.** (2003). Temporal effects in sequence learning. In L. Jiménez (Ed.), *Attention and Implicit Learning* (pp. 181-213). Amsterdam: John Benjamins Publishing.
35. **Cleeremans, A.** & Jiménez, L. (2002). Implicit learning and consciousness: A graded, dynamic perspective. In French, R.M. & Cleeremans, A. (Eds.), *Implicit Learning and Consciousness: An empirical, philosophical and computational consensus in the making* (pp. 1-40). Hove: Psychology Press,
36. **Cleeremans, A.** & Jiménez, L. (1998). Implicit Sequence Learning: The truth is in the details. In M. Stadler & P. Frensch (Eds.), *Handbook of Implicit Learning* (pp. 323-364). Newbury Park, CA: Sage.
37. **Cleeremans, A.** (1997). Principles for implicit learning. In D. Berry (Ed.), *How implicit is implicit learning?* (pp. 195-234). Oxford (England): Oxford University Press.
38. **Cleeremans, A.**, Servan-Schreiber, D., & McClelland, J.L. (1995). Graded State Machines: The representation of temporal contingencies in feedback networks. In Y. Chauvin & D.E. Rumelhart (Eds.), *Back-propagation: Theory, Architectures and Applications*. Hillsdale, NJ: Lawrence Erlbaum Associates. [see also Journal articles]
39. **Cleeremans, A.** (1994). The representation of structure in explicit prediction tasks. In C. Umiltà & M. Moscovitch (Eds.), *Attention and Performance XV: Conscious and non-conscious information processing* (pp. 783-809). Cambridge, MA: MIT Press.
40. **Cleeremans, A.** & McClelland, J.L. (1991). Learning the structure of event sequences. In W. Kessen, A. Ortony & F. Craik (Eds.), *Memories, Thoughts, and Emotions: Essays in Honor of George Mandler*, 45-64. Hillsdale, NJ: Lawrence Erlbaum Associates. [see also Refereed Conference papers]
41. Reder, L. & **Cleeremans, A.** (1990). The role of partial matches in comprehension: The Moses Illusion revisited. In A. Graesser & G. Bower (Eds.), *The Psychology of Learning and Motivation*, 25 (pp. 233-257). New York: Academic Press.

REFEREED JOURNAL ARTICLES (151)

42. Bulnes, L.C., Mariën, P., Vanderkerckhove, M., & **Cleeremans, A.** (2019). The effects of Botulinum toxin on the detection of gradual changes in facial emotion. *Scientific Reports*.
43. Vandendriessche, C., Chevrier, F., **Cleeremans, A.**, & Sackur, J. (2019). Lower attentional skills predict increased exploratory foraging patterns. *Scientific Reports*, 9:10948. [DOI](#)
44. Derda, M., Kokulac, M., Windey, B., Gociewicz, K., Wierchon, M., **Cleeremans, A.**, & Binder, M. (2019). The role of levels of processing in disentangling the ERP signatures of conscious visual processing. *Cognition and Consciousness*, 73, 102767. [DOI](#)
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Cleeremans, A., & McClelland, J.L. (1990). Unintentional learning of sequential structure. Paper presented at the *4th Conference of the European Society for Cognitive Psychology*, Como (Italy), September 16 — 19.

Cleeremans, A. (1990). Modeling sequence learning with simple recurrent networks. Paper presented at the colloquium *Connectionist approaches in cognitive science*, Brussels (Belgium), Palais des Académies, September 11 — 12.

Cleeremans, A. (1986). Rôle des connaissances implicites dans le contrôle d'un système. Poster presented at the *Annual Meeting of the Belgian Psychological Society*, Brussels (Belgium). Abstract published in *BVP/SBP bulletin*, 2.

TECHNICAL REPORTS

Cleeremans, A. & McClelland, J.L. (1990). Learning the structure of event sequences. Technical Report AIP-109, Department of Psychology, Carnegie Mellon University.

Servan-Schreiber, D., **Cleeremans, A., & McClelland, J.L.** (1988). Learning sequential structure in simple recurrent networks. Technical Report CMU-CS-88-183, Computer Science Department, Carnegie Mellon University.

INVITED SEMINARS, CONFERENCES & WORKSHOPS (259)

2019 **Sense of agency and the problem of free will.** Invited lecture, Higher School of Economics, Saint-Petersburg (Russian Federation), October 9th.

Consciousness. Invited lecture, Higher School of Economics, Saint-Petersburg (Russian Federation), October 10th.

Being Virtual. Invited seminar, CrossLabs (Tokyo, Japan), September 16th.

Learning to be conscious. Invited Keynote address at the Japanese Psychological Association, Ryumeikan University (Osaka, Japan), September 11th.

La conscience. Public conference for the Extension de l'ULB (Morlanwelz, Belgium), September 5th.

Consciousness (unconsciously) designs itself. Invited talk for the *SMART CS Workshop*, Amsterdam (The Netherlands), June 14th.

Conscience, libre-arbitre et neurosciences. Invited talk for *Bruxelles Formation*, Brussels (Belgium), June 11th.

The function of consciousness. Invited talk for the *8th Implicit Learning Seminar*, Tromsø (Norway), June 8th.

Consciousness: Is this what separates us from machines? Invited talk for the *Pint of Science* festival, Geuzenhuis, Ghent (Belgium), May 21st.

Consciousness: Is this what separates us from machines? Invited talk for the *Pint of Science* festival, Brussels Beer Project, Brussels (Belgium), May 22nd.

Consciousness is something that the brain learns to do. Public lecture in a debate on Consciousness, Leuven Brain Institute, Katholieke Universiteit Leuven (Belgium), March 12th.

Les modèles en psychologie. Public lecture for the colloquium titled “Modèles : Prévoir, comprendre, expliquer, interpréter, reproduire, trahir », Collège Belgique, Royal Academy of Belgium (Belgium), March 8th.

Une conscience artificielle est-elle possible? Opening lecture for the colloquium titled “Vulgarisation et diffusion des savoirs”, Université libre de Bruxelles (Belgium), February 12th.

2018 **La conscience dans tous ses états.** Public lecture for ALTAIR, Université libre de Bruxelles (Belgium), December 15th.

Being Virtual. Invited lecture for the CIFAR Winter School on Consciousness, Montebello (Canada), December 3rd.

The radical plasticity thesis: How we learn to be conscious. Invited lecture for the ERC conference titled “Frontier Research and Artificial Intelligence, ERCEA, Brussels (Belgium), October 25th.

The emergence of consciousness. Public evening lecture for the series “Science & Cocktails”, Brussels (Belgium), October 23rd.

Coercion and the elusive sense of agency. Invited lecture (joint with Emilie Caspar) for the Collège Belgique, Royal Academy of Letters, Arts & Sciences, Brussels (Belgium), October 10th.

Coercion and the elusive sense of agency. Invited talk (joint with Emilie Caspar) at the Alliance

Française, Brussels (Belgium), October 10th.

From implicit knowledge to consciousness. Invited talk at the PDP Symposium in Honor of Jay McClelland, Princeton (USA), September 29th.

Conscience, Apprentissage et plasticité cérébrale. Keynote lecture at the 59th Annual Congress of the Société Française de Psychologie, Reims (France), September 6th.

Being Virtual. Keynote lecture at the 22nd Annual Meeting of the Association for the Scientific Study of Consciousness, Krakow (Poland), June 28th.

Being Virtual. Invited colloquium for the Institute of Cognitive Science, University of Osnabruck (Germany), June 6th.

Measuring consciousness: The details matter. Invited lecture at the “Measurement in Science of Consciousness” Conference, La Sorbonne, Paris (France), June 22-23.

Conscience et émotions. Invited lecture for the PSYPLURIEL Centre, Brussels (Belgium), June 2nd.

Being Virtual. Keynote presentation at the 7th Implicit Seminar, Babes-Bolyai University, Cluj-Napoca (Romania), May 25th.

Exploring submillisecond psychophysics with a modern tachistoscope. Oral presentation at the 7th Implicit Seminar, Babes-Bolyai University, Cluj-Napoca (Romania), May 24th.

Conscience, agentivité & neuroéthique. Invited lecture for the CEPULB, Brussels (Belgium), March 29th.

Dopage: Influence des nouvelles technologies. Invited Plenary Symposium presentation at the 16th “Congrès de l’Encéphale”, Paris (France), January 25th.

Raison, intuition, émotion & conscience. Invited lecture in the “Philosophie & Management” conference cycles, Solvay School of Management, Université Libre de Bruxelles (Belgium), January 19th.

- 2017** **Consciousness.** Invited presentation at the “Slush Y Science” event, Helsinki (Finland), December 1st.
The radical plasticity thesis: Consciousness is something that the brain learns to do. Invited presentation at the “Designed Mind” workshop, Edinburgh (U.K.), November 10th.
Computational principles for consciousness. Keynote lecture for the IB2 Bioinformatics student day, Bruxelles (Belgium), October 13th.
La conscience dans tous ses états. Invited inaugural lecture for the Institut des Hautes Etudes de Belgique, Bruxelles (Belgium), October 4th.
Soumission à l’autorité et sentiment d’agentivité. Invited presentation at the colloquium “La désobéissance”, Ottignies (Belgium), September 19th.
Coercion and the elusive sense of Agency. Evens Science Prize lecture, The British Academy, London (UK), July 6th.
Sense of Agency. Invited presentation at the Agency Workshop, Utrecht (The Netherlands), June 22nd.
Consciousness: The Radical Plasticity Thesis. Invited colloquium lecture at the Chinese Academy of Sciences (Beijing, China), June 9th.
Implicit content. Invited presentation at the 6th Seminar on Implicit learning, ELTE, Budapest (Hungary), May 25th, 2017.
Les nouvelles technologies influencent-elles la cognition ? Invited presentation at the Colloquium entitled « Sexe, jeu et psychiatrie » organized by the Société Royale de Médecine Mentale de Belgique at the Brugmann Hospital (Brussels, Belgium), March 25th.
La conscience. Invited lecture in the CEPULB conference cycle, Université Libre de Bruxelles (Belgium), January 17th.
Psychologie et émotions. Invited lecture in the “Philosophie & Management” conference cycles, Solvay School of Management, Université Libre de Bruxelles (Belgium), January 13th.

- 2016** **La puissance de la conscience : Hypnose, placebo et suggestion.** Seminar for the Faculté de Psychologie et des Sciences de l’Education, Université de Genève (Switzerland), December 22nd.
Perdons-nous conscience? Intervention as discussant after the conference of Lionel Naccache for *Cultures d’Europe*, Université libre de Bruxelles (Brussels, Belgium), December 6th.
Les nouvelles technologies modifient-elles biologiquement nos enfants ? Invited presentation for the HUDERF colloquium titled “L’influence de la technologie sur les enfants”, Université libre de Bruxelles (Brussels, Belgium), November 24th.
Consciousness as learned metacognition. Invited seminar in the Zangwill Club seminar series, Department of Psychology, Cambridge University (U.K.), November 11th.
La puissance de la conscience : Hypnose, placebo et suggestion. Conference for the « Rencontres

Recherche et Création » event, Avignon (France), July 8th.

Artificial Consciousness? Invited lecture in the symposium titled “Can we simulate the human brain?”, held at the European Science Forum (ESOF 2016) in Manchester (UK), July 26th.

La puissance de la conscience : Suggestion, placebo, et hypnose. Invited lecture in the symposium titled “Croyances, Adhésion et conscience”, held at the colloquium “Rencontres Recherche & Création”, Avignon (France), July 8th.

Unconscious learning with conscious cues. Invited keynote address, Fifth Implicit Learning Seminar, Lancaster University (UK), June 25th.

Sense of agency and responsibility. Invited lecture at the INECO symposium, Buenos Aires (Argentina), June 21st.

Twenty years of ASSC. Invited lecture for the opening ceremony of the 20th Meeting of the Association for the Scientific Study of Consciousness, Buenos Aires (Argentina), June 14th.

The power of consciousness. Invited lecture at the 27th Attention & Performance meeting, Corsendonck (Belgium), June 9-12.

Three ways to fool consciousness’ radar, and methodological implications thereof. Invited lecture in the symposium titled “Implicit learning: Research methods for the next decade”, organized for the International Meeting of the Psychonomics Society, Granada (Spain), May 5-8.

Les origines cognitives des décisions absurdes. Invited lecture in the “Philosophie & Management” conference cycles, Solvay School of Management, Université Libre de Bruxelles (Belgium), April 22nd.

Consciousness: The Radical Plasticity Thesis. Invited colloquium at the BMIC, Maastricht University (The Netherlands), April 18th.

The Radical Plasticity Thesis. Invited lecture at the Psychology Department, Universität Gießen, (Germany), January 20th.

The Radical Plasticity Thesis. Invited lecture at the MBIC (Cognitive Neuroscience), Maastricht University, (The Netherlands), April 18th.

2015 What’s special about conscious cognitive processes? Invited presentation at the CIFAR Brain, Minds & Consciousness meeting, Toronto (Canada), December 20th.

Loops. Oral presentation at the “Consciousness and the Mind’s I: Loops and systems between perception and action”, Royal Academy of Belgium, Brussels (Belgium), December 1st.

Consciousness: The Radical Plasticity Thesis. Invited seminar at the Department of Psychology, University of Edinburgh, (U.K.), November 13th.

Open Access Publishing. Invited presentation at the Publication Strategies Workshop, Doctoral School of Psychology, Université Libre de Bruxelles (Belgium), November 6th.

The ERC experience. Invited talk at the Special event “European Research Council: Funding opportunities” organized during the 19th Conference of the European Society for Cognitive Psychology, Paphos (Cyprus), September 17th.

The reach of the unconscious. Invited presentation at the Jerusalem Conference on Conscious and Unconscious processes, Hebrew University of Jerusalem, Jerusalem (Israel), August 25th.

The Perruchet effect: Dissociating motor behaviour from conscious expectancy. Uninvited, uninvited pirate presentation at the 19th Meeting of the Association for the Scientific Study of Consciousness, Paris (France), July 7th-10th. See <https://storify.com/axc/this-is-not-a-poster>.

Implicit learning, statistical learning, associative learning: Same mechanisms, different phenomenology? Invited Theme Speaker presentation at the Interdisciplinary Advances in Statistical Learning meeting, Donostia-San Sebastian (Spain), June 27th.

Untitled. Invited presentation at the 4th Seminar on Implicit Learning, C-Lab, Krakow (Poland), June 6th.

How the corporatization of the university leads to culture crash. Invited talk for the General Assembly of the Union Académique Internationale, Royal Academy of Arts and Sciences (Belgium), May 26th.

Prediction-driven interactive loops between self-awareness and theory of mind. Invited lecture at the meeting titled “Modeling Self on Other (MOSEO)”, Social Mind and Body Group, Central European University (Budapest, Hungary), May 19th.

Consciousness: The Radical Plasticity Thesis. Invited seminar at the Laboratory of Cognitive Neuroscience, Brain-Mind Institute, EPFL (Switzerland), April 30th.

Hypnose, placebo, attentes et suggestion: La force des croyances dans la psychologie humaine. Invited address at the colloquium titled “Pensée rationnelle, pensée émotionnelle”, Académie Royale de Belgique, Brussels (Belgium), April 24th.

Consciousness: The Radical Plasticity Thesis. Invited seminar at the Center for Functionally Integrative Neuroscience, University of Aarhus (Denmark), April 20th.

Artificial Consciousness: A contradiction in terms? Invited plenary lecture for the symposium celebrating the 30 years of the Fondation Médicaments et Société, Royal Academy of Arts and Sciences (Belgium), April 2nd.

The power of consciousness: Hypnosis, placebo, and suggestion. Invited plenary lecture for the symposium titled “Understanding and training attention and the conscious mind”, organized during the International Convention of Psychological Science (ICPS), Amsterdam (The Netherlands), March 14th.

The ERC experience. Invited talk at the Special event “European Research Council: Funding opportunities” organized during the International Convention of Psychological Science (ICPS), Amsterdam (The Netherlands), March 13th.

The reach of the unconscious. Invited lecture at the Jean Nicod Institute (Paris, France), February 19th.

The reach of the unconscious. Invited lecture at the Center for Philosophical Psychology, Universiteit Antwerp (Antwerp, Belgium), February 12th.

The ERC experience. Invited talk at the ERCEA Benelux Principal Investigators Meeting, ERCEA Covent Garden (Brussels, Belgium), January 28th.

2014 Le concept de liberté à la lumière des neurosciences cognitives. Invited address at the colloquium titled “La liberté d’expression: Menacée ou menaçante?” Académie Royale de Belgique, Brussels (Belgium), December 6th.

The Radical Plasticity Thesis. Invited lecture at the Brain Prize Meeting, Hindsgavl Castle, (Middelfart, Denmark), November 3rd.

Prediction-driven interactive loops between self-awareness and theory of mind. Invited lecture at the meeting titled “Self-awareness — an emerging field in neurobiology”, Royal Danish Academy for Sciences and Letters (Copenhagen, Denmark), September 17th.

Consciousness: The Radical Plasticity Thesis. Invited keynote lecture at the International Cognitive Science Summer School, Babes-Bolyai University (Cluj-Napoca, Romania), July 28th.

The Reach of the Unconscious. Invited seminar at the International Cognitive Science Summer School, Babes-Bolyai University (Cluj-Napoca, Romania), July 29th.

Is consciousness graded or dichotomous? Invited lecture at the Heiko Reuss 2nd International Workshop on Neuro-cognitive mechanisms of conscious and unconscious visual perception, Hanse-Wissenschaftskolleg (Delmenhorst, Germany), July 2nd.

Hypnosis, Placebo, and suggestion: Common mechanisms? Invited seminar at the Pôle 3C, Université d’Aix-Marseille (Marseille, France), June 27th.

The Radical Plasticity Thesis. Invited seminar at the Laboratory of Experimental Psychology, Katholieke Universiteit Leuven (Leuven, Belgium), June 10th.

Consciousness and Attention: Learned loops in the brain. Keynote lecture at the 3rd Seminar on Implicit Learning (Interactions between conscious and unconscious processes), Saint-Petersburg State University (Saint-Petersburg, Russian Federation), May 13th.

Conscience et science de soi. Invited seminar at the Laboratoire de Psychologie Médicale et d’Addictologie, Brugmann Hospital (Brussels, Belgium), March 11th.

The Radical Plasticity Thesis. Invited colloquium at the School of Psychology at the University of Sussex (U.K.), February 18th.

Five invited lectures on consciousness as holder of the Francqui chair 2014, Faculty of Psychology, Université de Liège (Liège, Belgium), February 5th, 12th, 19th, 26th, March 5th.

The brain as a prediction machine. Invited closing lecture at the International Congress of Physiotherapy, Erasme Hospital (Brussels, Belgium), January 25th.

2013 The Radical Plasticity Thesis. Invited seminar at the Ecole Normale Supérieure (Paris, France), December 11th.

La prise de décision. Invited discussant, with Alain Berthoz and Jean-Noël Missa. Cultures d’Europe – Les débats de l’ULB conferences, Université Libre de Bruxelles (Brussels, Belgium) December 5th.

The Reach of the Unconscious. Invited presentation on the occasion of the retirement of Pr. Pierre Perruchet (Université de Bourgogne, France), December 4th.

The Reach of the Unconscious. Invited colloquium for the Psychology Department, University of Bern (Switzerland), November 28th.

The Radical Plasticity Thesis: How we learn to be conscious. Invited plenary lecture at the 2013 symposium of the Fondation Jean-Marie Delwart, Brussels (Belgium), October 18-20.

Conscious and unconscious processing in the sensory domain. Invited plenary lecture at the 10th Pangborn Sensory Science Symposium, Rio de Janeiro (Brazil), August 11-15.

This is not a keynote. Invited keynote lecture at the 2nd Seminar on Implicit Learning, University of

Bergen (Norway), June 20-22.

The Radical Plasticity Thesis: How we learn to be conscious. Invited lecture at the Moscow Cognitive Science Seminar, Moscow State University, (Russian Federation), May 14th

The Radical Plasticity Thesis: How we learn to be conscious. Invited lecture at the Department of General Psychology, Saint-Petersburg State University (Russian Federation), May 13th

The reach of the unconscious. Invited lecture at the Department of General Psychology, Saint-Petersburg State University (Russian Federation), May 11th

Models of consciousness. Keynote lecture at the Workshop “Models of consciousness and implications”, Lorentz Center, Leiden (The Netherlands), April 4th.

Lo stato vegetativo: il punto de vista dello psicologo. Invited presentation at the “Etica e neuroscienze cliniche” congress, Bergamo (Italy), March 4th.

Learning to be metacognitive. Invited colloquium at All Souls College, Oxford University, February 21st.

Les limites de l’humain. Invited discussant, with Roger-Pol Droit and Monique Atlan on “Les limites de l’humain”, Cultures d’Europe – Les débats de l’ULB conferences Université Libre de Bruxelles (Brussels, Belgium), February 7th.

2012 Consciousness: The Radical Plasticity Thesis. Invited colloquium at the Institute for Cognitive Neuroscience, University College London (U.K.), October 15th.

Consciousness: The Radical Plasticity Thesis. Invited lecture at the Summer School in Cognitive Science (Evolution and function of consciousness), Institut des Sciences Cognitives, Université du Québec à Montréal, Montréal (Canada), July 7th.

Conscience et liberté. Invited seminar, Department of Neurology, Université Catholique de Louvain (Belgium), May 31st.

Apprentissages avec et sans conscience. Invited presentation at the “58^{ème} colloque franco-belge des inspecteurs — Le cerveau dans tous ses états”, Namur (Belgium), May 15th.

Consciousness: The Radical Plasticity Thesis. Invited colloquium for the Sylvius Lectures Series, Leiden Institute for Brain and Cognition, University of Leiden (The Netherlands), March 15th.

Le Libre-arbitre à la lumière des neurosciences. Invited conference for the Société Philosophique de Louvain, Institut Supérieur de Philosophie, Université de Louvain (Belgium), March 12th.

Apprentissages avec et sans conscience. Invited lecture for the *Journées Internationales de Réflexion sur les Apprentissages de la Musique*, Conservatoire Royal de Bruxelles (Belgium), March 9th.

2011 Qu’apportent la psychologie et la psychanalyse à ma santé mentale et mon efficacité? Invited seminar for the Executive Programme en Management & Philosophies, Solvay Brussels School, Université Libre de Bruxelles (Belgium), December 16th.

La fonction en psychologie. Invited seminar for the GRAL doctoral seminar series, Faculty of Philosophy, Université Libre de Bruxelles (Belgium), November 25th.

Open Access Publishing. Invited lecture for the Publication Workshop, Doctoral School in Psychological Sciences and Education, Université Libre de Bruxelles, Brussels (Belgium), November 18th.

Apprendre à être conscient. Invited lecture for the “Epistémologie des Neurosciences” event, Institut supérieur de philosophie, Université Catholique de Louvain, Bruxelles (Belgium), November 17th.

Consciousness: The Radical Plasticity Thesis. Invited lecture delivered for the Agalma Foundation on the occasion of the workshop titled “The Freudian unconscious”, Lausanne (Switzerland), October 29th.

The brain on sale. Seminar delivered for the “Understanding your customer’s mind” event organized by the “Fondation Marketing” in Leuven (Belgium), October 11th.

Prediction as a computational correlate of consciousness. CHAOS Award lecture delivered at CASYS’11 (10th International Conference on Computing Anticipatory Systems), Liège (Belgium), August 8th.

Consciousness: The Radical Plasticity Thesis. Invited keynote presentation at the joint Society for Philosophy and Psychology (SPP)/ European Society for Philosophy and Psychology (ESPP) 38th Annual Meeting, Toronto (Canada), July 21st.

Consciousness: The Radical Plasticity Thesis. Invited colloquium at the Psychology Department, Ludwig-Maximilians-Universität (Munich, Germany), May 18th.

Le concept de liberté à la lumière des neurosciences cognitives. Invited public lecture for the Scéance Publique de la Classe des Lettres, Académie Royale de Belgique, Bruxelles (Belgium), May 9th.

Consciousness: The Radical Plasticity Thesis. Invited seminar at the Brain-Mind Institute, EPFL, Lausanne (Switzerland), March 23rd.

Connectionist models of recursion. Invited presentation at the International Conference on Language and Recursion, Mons (Belgium), March 15th.

Le malaise des individus. Public debate at the Passa Porta Bookstore, Bruxelles (Belgium), February 8th.

Associations et dissociations entre comportement et conscience. Invited presentation at the "Foundation Marketing" group, Rhode Saint-Genèse (Belgium), February 9th.

2010 Des neurones à l'esprit: Vers une science de la conscience. Invited presentation for the "Echos des centres de recherches contemporaines en Belgique" meeting organized by the Belgian College of Neuropsychopharmacology and Biological Psychiatry, Centre Columbian, Wavre (Belgium), October 16th.

Qu'est-ce-que la conscience? Public conference for the cycle "Le cerveau en questions", Center for Scientific Culture, Charleroi (Belgium), October 14th.

La conscience dans tous ses états. Public conference for the cycle "Rencontres philosophiques", La Venerie, Brussels (Belgium). October 4th.

Des neurones à l'esprit: Les mécanismes de la conscience. Seminar delivered at the André Vésale Hospital, Charleroi (Belgium). September 27th.

The Radical Plasticity Thesis. Invited colloquium delivered at the Psychology Department, University of Lund (Sweden), September 22nd.

The Radical Plasticity Thesis. Invited keynote presentation at the 4th International Conference on Cognitive Science, Tomsk (Russia), June 22nd [Declined for scheduling conflict]

The reach of the unconscious. Invited seminar delivered at the Marketing Department of the Ecole de Management, Grenoble (France), June 10th

Apprendre à être conscient. Invited seminar at the Laboratoire URECA, Université Charles de Gaulle, Lille (France), May 20th.

The reach of the unconscious. Invited lecture delivered at the "Unconscious Processes" Workshop organized under the auspices of the CEP section of the British Psychological Society, Brighton (U.K.), May 11th

Consciousness and free will: The radical plasticity thesis. Invited lecture at the IGSN symposium organized at the Ruhr-Universität Bochum titled "Brain Reading and Consciousness", Bochum (Germany), April 12th

To think or not to think? Invited lecture at the 8th Symposium of Bial Foundation titled "Intuition and decision making: Behind and Beyond the Brain", Porto (Portugal), April 7th

Le cerveau. "Ignite" presentation at the Parc d'Attraction Scientifique in the context of the "1001 cerveaux" exhibit, Mons (Belgium), March 15th.

The radical plasticity thesis. Invited conference at the Centre for the Study of the Senses (CenSes), University College London (U.K.), March 12th.

Learning to be conscious. Invited keynote presentation at the 11th Guadalajara Symposium on the Science of Behavior, Guadalajara (Mexico), February 22nd

Impact et limites de l'apprentissage implicite. Invited seminar at the Collège de France, Paris (France), February 2nd

Conscience et Espace, Institut d'Art Contemporain, Lyon (France), January 22nd.

2009 Consciousness and neuroscience. Invited keynote address at the ESCAN kick-off meeting, Amsterdam (The Netherlands), December 10th.

Measuring consciousness. Invited keynote address at the "Consciousness and its measures"(COST Action BM0605) conference, Limmasol, Cyprus, December 1st.

Dissociations between action awareness and awareness in simple reaction time and in pointing tasks. Invited lecture at the Workshop on Knowledge and Performance in the Perception of Objects and Living Beings, Center for Interdisciplinary Research (ZIF), Bielefeldt University (Germany), October 30th.

Prise de décision et conscience: Vaut-il mieux faire confiance à l'inconscient ou réfléchir? Conférence presented to the Classe des Lettres et des Sciences Morales et Politiques, Académie Royale des Sciences et des Arts de Belgique (Belgium), October 5th.

How we learn to be conscious, Invited colloquium in the Neurowissenschaftliches Kolloquium Uniklinik Köln series, University of Cologne (Germany), September 23rd.

Learning to be conscious, Invited conference for the "The Brain Unravelled" exhibition, Slade Research Centre, University College London, September 10th.

The Radical Plasticity Thesis, Invited conference for the L.E.C.A initiative, Universität Leipzig

(Germany), June 16th.

Intuition, conscience, neurosciences & prise de décision. Invited conference for the Solvay Continued Education Program, Brussels (Belgium), June 12th.

Consciousness. "Pecha Kucha" (20 slides of 20 seconds each) invited presentation for 8th Pecha Kucha Night, Claridge (Brussels), May 14th.

Consciousness. "Pecha Kucha" (20 slides of 20 seconds each) invited presentation for the CampusTalk initiative, Vrije Universiteit Brussel, March 25th.

La conscience dans tous ses états. Invited conference in the "Day After" conference series, Café des Fous (Paris, France), March 18th.

Du subliminal à l'hypnose: Que peut-on vraiment faire sans conscience? Invited seminar in the "Séminaire de recherche en Philosophie des Sciences", Université de Liège (Liège, Belgium), March 11th.

Computational theories of consciousness: The radical plasticity thesis. Invited colloquium, Cognito Group, Universiteit van Amsterdam (Amsterdam, The Netherlands), January 6th.

2008 What defines consciousness? Invited plenary address, Belgian Brain Congress 2008 (Oostende, Belgium), October 24th.

Mr. Spock's guide to Psychology. Invited lecture in the Symposium "Psychology: Scenes of tomorrow", held in honor of Pr. José Morais, Palace of the Royal Academies (Brussels, Belgium), September 20th.

Conscious and unconscious processing: A conceptual sketch. Invited colloquium, Fritz Strack group, University of Wurzburg (Wurzburg Germany), July 9th.

Consciousness and metarepresentation: A computational sketch. Invited presentation at the CSCA symposium titled "Distributed Processing Models", Universiteit van Amsterdam, (Amsterdam, The Netherlands), June 27th.

Consciousness: The Radical Plasticity Thesis. Keynote lecture presented at the Koninklijke Vlaamse Akademie van België (Belgium)'s lecture cycle dedicated to "Brain, Consciousness, and Soul", May 6th.

Consciousness takes time: Evidence from sequence learning, conditioning, and action studies. Keynote lecture presented at the VolkswagenStiftung Workshop titled "Consciousness and time" (Edinburgh, Scotland), April 1st.

Consciousness and Control. Keynote lecture presented at the "Action Monitoring and Behavioural Adjustment" Graduate Student Workshop, RWTHAachen University (Germany), March 15^h.

Comment apprendre sans conscience nous fait apprendre à être conscients. Invited conference presented at the Archives Jean Piaget, Université de Genève (Switzerland), March 11th.

2007 The radical plasticity thesis. Invited conference presented at the Instituto de Filosofia de Langagem Univesidade Nova de Lisboa (Lisbon, Portugal), on the occasion of a Workshop titled "Emotion, Cognition, and Communication, December 20th.

Conscience et apprentissage. Invited conference presented on the occasion of a symposium celebrating the career of Jean-Paul Haton (Saint-Dié des Vosges, France), 25th October.

Learning and consciousness. Invited keynote lecture presented at the NWO Autumn School on "Learning and Social Cognition" (Arnhem, The Netherlands), 14th October 2007.

Learning to be conscious. Invited conference presented at the Berlin-Brandenburgische Akademie der Wissenschaften (Berlin, Germany), on the occasion of a Workshop titled "Functions of Consciousness", July 19th.

Learning to be conscious: The Radical Plasticity Thesis. Invited conference presented at the 2nd Summer School on Consciousness, Institut d'Etudes Scientifiques de Cargèse (Corsica, France), June 15th.

Comment sommes-nous conscients? Invited presentation on the occasion of the 10th Anniversary of the DANA Alliance for the Brain, Université Libre de Bruxelles (Belgium), April 24th.

Learning and consciousness. Invited seminar at the "Laboratoire Langage, Mémoire et Développement Cognitif, CNRS", Université de Poitiers (France), January 11th

Learning to be conscious. Invited seminar at the "Laboratoire d'étude des mécanismes cognitifs, CNRS", Université de Lyon 2 (France), February 5th.

2006 Conscious experience as the brain's unconscious understanding of itself. Invited presentation at the "The Self and the soul in science and society" conference, House of Lords, London (U.K.), November 27th.

The dynamics of consciousness: Temporal factors shape interactions between conscious and unconscious information processing. Invited plenary lecture at the workshop titled "Models of Brain

& Mind: Physical, Computational, and Psychological Approaches”, Saha Institute of Nuclear Physics, Calcutta (India), November 21st-28th.

Learning and consciousness. Invited seminar in the “Whitehead Seminar Series”, Goldsmith College, London (U.K.), October 18th.

Imaging Consciousness: Space and Time in the Brain. Invited keynote presentation at the XXth Brijuni Conference, Brioni Island (Croatia), August 26th.

Consciousness takes time. Invited keynote presentation at the 2nd Workshop on Cognitive and Social Perspectives on (Un)consciousness, Kazimierz Dolny (Poland), July 10th.

Learning and consciousness. Invited keynote presentation at the Sixth Congress of Spanish Society for Experimental Psychology, University of Santiago (Santiago de Compostela, Spain), July 6th.

Being Virtual: A graded, adaptive perspective on consciousness and self. Invited keynote presentation at the 4th Multidisciplinary Symposium by the NWO Cognition Programme (Utrecht, The Netherlands), June 28th.

CorrélatS neuraux des apprentissages avec et sans conscience. Invited seminar at the Assemblée Générale du Centre de Recherche en Neurosciences, Université Catholique de Louvain (Brussels, Belgium), May 16th.

Apprendre sans le savoir ou savoir sans apprendre. “Café des Sciences” with Serge Schiffman, Université Libre de Bruxelles (Brussels, Belgium), March 15th.

A la recherche des corrélatS neuraux de la conscience : Comment réconcilier données objectives et subjectives. Invited colloquium in the conference series « Ilya Prigogine — Penser la Science », Université Libre de Bruxelles (Brussels, Belgium), March 2nd.

Les corrélatS neuraux de la conscience. Séminaire invité présenté au Service de Psychiatrie, Hôpital Erasme (Brussels, Belgium), February 17th.

Consciousness as a tipping point. Invited presentation at the Mars Inc. Catalyst-MDRU Meeting (McLean, USA), February 15th.

Comment apprendre sans conscience nous fait apprendre à être conscient. Séminaire invité présenté à l’Institut Jean Nicod (Paris, France), February 3rd.

2005 Consciousness as a continuum: Computational and neural correlates of the implicit-explicit distinction. Invited colloquium at the Psychology Department, Ludwig-Maximilians-Universität (Munich, Germany), October 26th.

Principes généraux d’une théorie de la conscience, invited workshop at the “Conscience, Mémoire et Attention” summer school, Cargèse (Corsica, France), June 6th-18th.

Introductory lecture, invited presentation at the “Conscience, Mémoire et Attention” summer school, Cargèse (Corsica, France), June 6th-18th.

Consciousness as global constraint satisfaction: From control to automaticity. Invited keynote presentation at the European Workshop on Movement Science, Vienna (Austria), June 2nd-4th.

Entre mémoire et action: A la recherché des bases cérébrales de la conscience. Invited presentation for the festival “Science et Cité”, Geneva (Switzerland), May 21st.

Being Virtual: A graded, dynamic perspective on the relationships between conscious and unconscious cognition. Invited Keynote lecture presented at the 1st workshop on cognitive and social perspectives on (un)consciousness, Kazimierz Dolny (Poland), February 11th.

2004 Ce qui fait que nous sommes humains: A la recherche des corrélatS neuraux de la conscience. Invited presentation for Altaïr, Université Libre de Bruxelles (Belgium), December 11th.

Comment devenir un zombie intelligent: Une perspective gradualiste sur les rapports entre cognition avec et sans conscience. Invited presentation at the LEAD, Université de Bourgogne (France), December 2.

Being Virtual: How we learn to be conscious. Invited colloquium at the Institute for Cognitive Neuroscience, University College of London (U.K.), November 15.

Conscious and unconscious learning: A computational perspective. Invited keynote presentation at the XXVIII International Congress of Psychology, Beijing (China), August 8 — 13.

The subtlety of gradedness: Connectionist models of implicit learning. Keynote presentation delivered at the small group meeting titled “Social Connectionism”, Genval (Belgium), June 16 — 19.

Learning and Consciousness: A graded, dynamic perspective. Invited colloquium at the Unité de Neuroimagerie cognitive, Service Hospitalier Frédéric Joliot, Orsay (France), June 11.

Consciousness. Invited presentation in the symposium titled “Revealing connections: Insights from connectionist models for the dynamics of human learning” organized at the 16th Annual Convention of the American Psychological Society, Chicago (USA), May 27-30.

- Conscience et contrôle: Une perspective dynamique.** Invited seminar at the Institut de Psychologie, Université Paris 5 (France), March 29.
- Conscience et apprentissage: Une perspective gradualiste.** Invited seminar in the “Séminaires de neurosciences cliniques”, Hôpital Erasme, Université Libre de Bruxelles (Belgium), March 22nd.
- Conscience et contrôle: Une perspective dynamique.** Invited seminar at the Neuropsychology Unit, Université de Liège (Belgium), March 18.
- 2003** **Learning to be conscious.** Invited Departmental Colloquium, Department of Psychology, University of Sussex (U.K.), December 11.
- Conscience et contrôle: Une perspective dynamique.** Invited Departmental Seminar, Département des Sciences du Mouvement Humain, Université de la Méditerranée—Aix-Marseille II, October 23.
- The search for the computational correlates of consciousness.** Invited presentation at the ESF/PESC Exploratory Workshop titled “Models of Consciousness”, Birmingham (U.K.), September 1-3.
- The search for the computational correlates of consciousness.** Invited keynote presentation at the 11th meeting of the European Society for Philosophy and Psychology, Turin (Italy), July 9th-12th.
- The search for the computational correlates of consciousness.** Invited keynote presentation at the 7th meeting of the Association for the Scientific Study of Consciousness, Memphis (U.S.A.), May 31.
- Consciousness and cognitive control: A graded, dynamic perspective.** Invited presentation at the Department of Psychology, University of Granada (Spain), May 6.
- 2002** **Learning to be conscious.** Invited presentation at the “Consciousness Club” seminar series, Functional Imaging Laboratory (U.K.), October 3.
- Learning and Consciousness: A graded, dynamic perspective.** Invited colloquium presented to the Department of Psychology, University of Arizona (U.S.A.), April 5.
- Implicit learning: How unconscious? How abstract?** Invited colloquium presented to the Institute of Cognitive Science, University of Colorado at Boulder (U.S.A.), March 8.
- A graded, dynamic perspective on consciousness: Reconciling symbolic and subsymbolic approaches to cognition.** Seminar presented to the Centre de Recherches en Epistémologie Appliquée (CREA, Ecole Polytechnique), Paris (France), February 12.
- 2001** **Learning and Consciousness: A graded, dynamic perspective.** Departmental “Cognitive Lunch” presented to the Department of Psychology, University of Colorado at Boulder (U.S.A.), December 10.
- Learning and Consciousness: A graded, dynamic perspective.** Departmental Colloquium presented in the Distinguished Speaker in Development series, Department of Psychology, Cornell University (U.S.A.), November 10.
- Rules vs. Statistics: The other “hard” problem.** Graduate Seminar presented in the Department of Psychology, Cornell University (U.S.A.), November 9.
- Learning and Consciousness: A graded, dynamic perspective.** Seminar presented at the CCN Lab Seminar Series, Psychology Department, University of Colorado at Boulder (U.S.A.), September 28.
- Behavioral, Neural, and Computational Correlates of Implicit and Explicit Learning.** Invited presentation at the Symposium “Interactions between implicit and explicit learning” (Organizers: Ron Sun & Robert C. Mathews), held during the Twenty-Third Annual Conference of the Cognitive Science Society, Edinburgh (Scotland), August 1 — 4.
- Il y a-t-il une unité de la conscience?** Invited presentation delivered at the colloquium “Bruxelles 2001 - Quelle unité de la connaissance?” held at la Hulpe (Belgium), June 12 — 15.
- Learning and consciousness: A graded, dynamic perspective.** Invited presentation at the VSPA Conference on Consciousness (Amsterdam, The Netherlands), June 1.
- Being Virtual: Consciousness and self as graded, dynamic phenomena.** Invited presentation at a workshop titled “Can a machine be conscious?” held at the Banbury Center (Cold Spring Harbor Laboratory, Long Island, USA), May 13 — 16.
- L’unité de la conscience.** Invited presentation delivered at the “Journée thématique sur la Correspondance des Sens: Synesthésie, physique et neuropsychologie”, Fondation Nicolas-Claude Fabri de Peiresc (Brussels, Belgium), April 5.
- Learning and consciousness: A graded, dynamical perspective.** Presentation delivered at the AISB-01 convention symposium “Nonconscious intelligence: From Natural to artificial”, held at the University of York (UK), March 21 — 24.
- Action and consciousness: A graded, dynamical perspective.** Invited keynote presentation at the “SportMotorik 2001: Bewusstsein, Bewegung, Lernen” conference held at the Justus-Liebig Universität Giessen (Germany), January 25 — 27.

- 2000** **Learning and consciousness: A graded, dynamical perspective.** Invited seminar presented at the Laboratoire de Psychologie Cognitive, Université de Provence à Aix (France), December 15.
Learning and consciousness: A graded, dynamical perspective. Invited colloquium presented for the Unit of Experimental and Theoretical Psychology, Universiteit Leiden (Netherlands), October 4.
Learning and consciousness: A graded, dynamical perspective. Invited mini-course delivered in the context of the Würzburg Summer School on Learning: The Acquisition of Behavioral Competence (Organizer: J. Hoffmann), Würzburg, September 22 — 27.
Learning and consciousness: A graded, dynamical perspective. Invited keynote presentation at the third international conference on cognitive modeling (ICCM-2000), Groningen (The Netherlands), March 25.
Sensitivity to abstract sequence structure: Learning without knowing, or knowing without learning? Invited seminar presented in the weekly Cognitive Science Seminar series, Department of Psychology, Birkbeck College (U.K.), March 1.
Consciousness and knowledge representation in sequence learning. Invited departmental seminar presented at the Department of Psychology, University College London (U.K.), February 29.
Learning and consciousness. Invited seminar presented in the IRIDIA "Sciences sans frontières" seminar series, Université Libre de Bruxelles (Belgium), February 25.
- 1999** **Consciousness and knowledge representation in sequence learning.** Invited colloquium presented at the Department of Psychology, Humboldt University of Berlin, November 8.
Consciousness and knowledge representation in sequence learning. Invited seminar presented at the Department of Psychology, University of York (U.K.), September 7.
Apprendre un langage avec vos doigts: Modèles connexionistes des l'apprentissage de séquences. Invited seminar in the "Séminaire sur les applications et les implications de l'informatique" series, Department of Psychology, Université Libre de Bruxelles (Belgium), March 26.
Learning language with your fingers: Connectionist models of sequence processing. Invited seminar presented at the AI Lab, Vrije Universiteit Brussels (Belgium), March 19.
- 1998** **Implicit cognition: Damned if you do, damned if you don't.** Invited lecture delivered at a workshop titled "The role of implicit memory and implicit learning in representing the world", Université de Liège (Belgium), March 28.
Is sequence learning (a) implicit? (b) automatic? (c) abstract? (d) none of the above? Invited seminar presented at the Department of Psychology, University of Wales, Bangor (U.K.), February 20.
Sequence learning: An overview. Talk presented at the Ulg IUAP workshop, Liège (Belgium), January 9.
- 1996** **Implicit cognition with the symbolic metaphor of mind: How traditional models of cognition leave no room for the implicit.** Invited seminar presented at the Faculté de Psychologie, Université de Liège (Belgium), December 5.
Implicit cognition with the symbolic metaphor of mind: How traditional models of cognition leave no room for the implicit. Invited seminar presented at the Department of Psychology, University of Glasgow (U.K.), November 14.
Principes de l'apprentissage implicite. Invited seminar presented at the LEAD, Université de Bourgogne à Dijon (France), January 17.
Métaphores symboliques et connexionistes de l'esprit: Implications pour l'apprentissage implicite. Invited seminar presented at the Laboratoire de Psychologie Sociale de la Cognition, Université Blaise Pascal à Clermont-Ferrand (France), January 16.
- 1995** **Beyond the SRN: Modeling sequence learning with Recurrent Encoder Networks.** Paper presented at the "Sequence learning and sequencing" workshop, Max Planck Institut für Psychologische Forschung, Munich (Germany), November 16 — 17.
Cinq principes pour l'apprentissage implicite. Invited conference presented at the Laboratoire Travail et Cognition, Université Toulouse II (France), November 3.
- 1994** **Exploring and interpreting dissociations in implicit learning.** Invited seminar presented at the Service de Neuropsychologie, Université de Liège (Belgium), November 9.
Connectionist networks as models of human sequence learning: An overview. Invited seminar presented at the Department of Computer Science, University of Sheffield (UK), July 4.

Représentations et processus dans l'apprentissage implicite: Les vertus du connexionisme. Invited seminar presented at the Unité de Psychologie du Travail et des Organisations, Université Catholique de Louvain (Belgium), April 21.

Being explicit about implicit learning. Main presentation at the Implicit-Explicit Workshop, University of Sussex, Brighton (UK), March 23.

- 1993 Les métaphores de l'Esprit.** Conference presented at the Institut des Hautes Etudes, ULB (Belgium), November 25.
The psychology of connectionism. Lecture presented at the Institute of Psychology, University of Aarhus (Denmark), November 15.
Attention and awareness in sequence learning. Seminar presented at the Department of Psychology, University of Oregon (USA), June 22.
Attention and awareness in sequence learning. Seminar presented at the weekly research meeting of the PDP group, Carnegie Mellon University (USA), April 9.
Attention and awareness in sequence learning. Colloquium presented at the Department of Psychology, Katholieke Universiteit Brabant, Tilburg (The Netherlands), March 25.
Attention and explicit knowledge in sequence learning. Seminar presented at the Laboratoire de Psychologie Expérimentale, ULB (Belgium), February 25.
Mechanisms for implicit learning. Seminar presented at the Department of Psychology, Université de Genève (Switzerland), February 17.
- 1992 Sequence processing in human and artificial systems.** Colloquium presented at the Psychologisches Institut, Universität Bonn (Germany), March 25.
Learning disjoint sequential contingencies: Human performance and connectionist models. Seminar presented at Université René Descartes, Paris (France), February 14.
- 1991 Mechanisms of implicit learning: A PDP model of sequence acquisition.** Colloquium presented at the PDP-NLP meeting, University of California: San Diego (USA), April 9.
- 1990 Graded State Machines.** Seminar presented at the AI-Lab, VUB (Belgium), July 3.
- 1989 Implicit learning of sequential structure in a CRT task.** Seminar presented at IRIDIA, ULB (Belgium), August 22.
Learning sequential structure. Paper presented at the seventh annual Pitt-CMU conference on Cognition, LRDC, University of Pittsburgh (USA), June 16.
- 1988 Learning in simple recurrent networks.** Seminar presented at the research meeting of the Boltzmann group, Department of Computer Science, Carnegie Mellon University (USA), October 5
Learning in recurrent networks. Seminar presented at the Laboratoire de Psychologie Industrielle et Commerciale, ULB (Belgium), June 28.
- 1987 Associations et dissociations entre performance et connaissances verbalisables.** Seminar presented at the weekly research meetings series of the Laboratoire de Psychologie Expérimentale, ULB (Belgium), June 18.
Modèles connexionnistes et apprentissage implicite. Seminar presented at IRIDIA, ULB (Belgium), June 2.

MEDIA ENGAGEMENT

- ▶ December 2019: Interviewed for the podcast “Cognitive Revolution” by Cody Kommers. [Link](#)
- ▶ December 2019: Featured in article titled “Les quatres principales theories au banc d’essai”. *La Recherche* 554, special issue dedicated to “La science de la conscience ».
- ▶ November 2019: Interviewed on « An overview of the Science of Consciousness” by GeorgeAnn Sack on Medium. [Link](#).

- ▶ October 2019: Featured in article titled « Quand la boussole morale des chercheurs perd le nord », *F.R.S.-FNRS News*, 117, p. 29.
- ▶ October 2019: Featured in article titled “Pourquoi ne se sent-on pas toujours responsable de nos actes, by Philippe Lambert for *La Recherche*, 552, 63-66.
- ▶ August 2019: Interview for the youtube series “Consciousness Live!” by Richard Brown. [Link](#)
- ▶ March 2019: Featured in article titled “Across languages, brains process abstract and concrete words differently”, by Olivia Goldhill for Quartz. [Link](#)
- ⊙ December 2018: Featured in article titled “De l’évaporation de la responsabilité” by Philippe Lambert in *Neurone*, 23(10), pp. 7-11.
- ▶ October 2018: Interview for EURADIO, on the ERC project “RADICAL”. [Link](#)
- ⊙ October 2018: Profiled on VICE Motherboard. [Link](#)
- ⊙ August 2018: Appearance in the “La Une” Prime time newscast, on visual illusions.
- ⊙ April 2018: Interviewed for “Téléoustique” on social media.
- ⊙ March 2018: Interviewed for “Le Soir” on brain uploading. [Link](#)
- ⊙ **March 2018: Featured in “The most unknown” — a Motherboard/VICE/Simons Foundation feature length documentary by Ian Cheney about scientific research. International première at the CPH:DOX festival (Copenhagen), March 16th. [Link](#)**
- ⊙ January 2018: Featured in the “Tout s’explique” broadcast, *RTL-TVI* television, on false memory.
- ⊙ December 2017: Featured in article titled “Sommes-nous les jouets d’influences subliminales?” by Philippe Lambert. *FNRS News* N° 111, pp. 28-29.
- ⊙ November 2017: Featured in article titled “Influences subliminales... mythe ou réalité?” by Philippe Lambert. *ATHENA* 333, pp. 18-22.
- ⊙ October 2017: Featured in article titled “Influences subliminales... mythe ou réalité?” by Philippe Lambert, *TEMPO MEDICAL* 402, pp. 12-15.
- ⊙ April 2017: Interview for *RTL-TVI* television newscast, on Facebook’s research on BCI technology.
- ⊙ February, 2017: Interview for *La Libre Belgique*, on IQ decline.
- ⊙ February, 2017: Interview for the RTBF *La Une* television primetime newscast, on IQ decline. [Link](#)
- ⊙ December, 2016: Interview for *Le Figaro*, on neuroaesthetics.
- ⊙ December, 2016: Interview on RTL-TVi, about the impact of new technologies on development.
- ⊙ December, 2016: Interview on Radio Campus, about the impact of new technologies on development.
- ⊙ November 4th, 2016: Live television debate for the “Pour ou contre” broadcast (RTL-TVi), on telepathy.
- ⊙ September, 2016. Featured in [Quartz](#), on whether “Reality only means what you think it means”.
- ⊙ July, 2016. Featured in *Science & Vie Junior* 322, pp. 58-63, on *Caspar et al.* (2016).
- ⊙ July, 2016. Featured in [Quartz](#), on the relevance of Freud’s theories for the study of consciousness.
- ⊙ July, 2016. Featured in different media outlets about the significance of hydrocephalus for theories of consciousness (Interviews on [Quartz](#), [ScienceAlert](#), [CBC](#), [De Morgen](#))
- ⊙ May, 2016. Featured in *Athena* 320 in an article by Philippe Lambert titled “L’insoutenable soumission de l’être”, on *Caspar et al.* (2016). [Link](#)
- ⊙ March 31st, 2016. Featured in France 2 Television’s prime time newscast, on “Intuition”. [Link](#)
- ⊙ March 12th, 2016. Interview for [Quartz](#). [Link](#)
- ⊙ February 18th, 2016. Worldwide coverage of *Caspar et al.* (2016). [Link](#)
- ⊙ February 13th, 2016. Interviewed in *Victoire*, on the cognitive impact of new technologies.
- ⊙ January 21st, 2016. Televised feature for the RTL-TVi broadcast *Tout s’explique*, on priming. [Link](#)
- ⊙ January 17th, 2016: Featured in [Quartz](#) about our research on free will and impulsivity. [Link](#)
- ⊙ January 8th, 2016: Featured in *New Scientist* about our research on free will and impulsivity. [Link](#)
- ⊙ January 13th, 2016. Featured in *Le Soir*, about the death of David Bowie.
- ⊙ September 2015. Featured in the ULB program “12 mois, 12 experts”. [Link](#)
- ⊙ September 8th, 2015. Featured in the ULB program “Dessine-moi la communication. [Link](#)
- ⊙ May 23rd, 2015. Featured in *De Standaard*, on the ethics of self-driving cars. [Link](#)
- ⊙ January 28th, 2015: Featured in the *Science Careers* article “Scientists under the microscope”. [Link](#)
- ⊙ January 8th, 2015: Televised feature for the RTL-TVi *Tout s’explique* broadcast, on color and mood.
- ⊙ November, 2014: Featured in the article “Le cerveau nous laisse-t-il maître de nos choix?” by Philippe Lambert, in *Le Monde de l’Intelligence* n° 39 (November-December 2014), pp. 32-37.
- ⊙ October, 2014: Featured in the article “Le fantôme de la liberté” by Philippe Lambert, in *Tempo Médical* n° 371, pp. 21-24.
- ⊙ February 22nd, 2014: Televised interview for the RTBF *La Une* Primetime Newscast, on the psychological factors that explain the public’s interest about the arrival of two pandas in Belgium.

- ⊙ November 2013: Print interview for a feature titled “L’animal a-t-il une conscience”, *Marianne Belgique* (weekly), n° 34, pp. 10-15.
- ⊙ October 2013: Radio interview on the occasion of the creation of the ULB Neuroscience Institute for “Radio Campus” for “Science sans conscience n’est que ruine de l’âme, mais conscience sans science n’est qu’un vilain gros mot ” (with Alexandre Wajnberg).
- ⊙ September 7th, 2013: Featured in National Geographic online. [Link](#)
- ⊙ May 31st, 2013: Live interview on RTL+ (RTL-TVI Television), on memory. [Link](#)
- ⊙ April 2nd, 2013: Televised interview for the RTBF *La Une* Primetime Newscast, on the occasion of the inauguration of the ULB Neurosciences Institute.
- ⊙ March 28th, 2013: Interview for *TéléBruxelles Television*, on the occasion of the inauguration of the ULB Neurosciences Institute.
- ⊙ February 23rd, 2013: Featured in the *New York Times*, on priming and replicability. [Link](#)
- ⊙ February 21st, 2013: Televised recreation of experiments on the influence of ambient color for “*Tout s’explique*”, RTL-TVI television.
- ⊙ February 13th, 2013: Extended interview in “*La Libre Belgique*” on the occasion of the creation of the Center for Research in Cognition & Neurosciences. *La Libre Belgique* 130 (44), pp. 22-23.
- ⊙ February 30th, 2013: Featured in the article titled “Power of suggestion”, *Chronicle of Higher Education*, Tom Bartlett, on the replicability crisis in psychology.
- ⊙ January, 2013: Featured in the article titled “Denken over denken, weten over weten” by Time Vernimmen. *Psyche&Brein*.
- ⊙ December 2012: Televised interview for the “On n’est pas des pigeons” broadcast, RTBF La Une Television, on “karmic massage”.
- ⊙ October 2012: Interviewed for “Victoire” 259 (October 13th), *Le Soir*, on pleasure (article titled “Le gout du plaisir”).
- ⊙ April 2012: Interviewed for “Matière Grise” science newscast, RTBF La Une Television, on hypermnesia.
- ⊙ April 2012: Interviewed for “Le 15 minutes” newscast, RTBF La Deux Television, on eye-tracking technology and applications.
- ⊙ March 2012: Extensive internet coverage on the publication of Doyen et al. (2012). Articles by Ed Yong’s “Not Exactly Rocket Science” blog for *Discover Magazine*, by John Bargh’s “Natural Unconscious” blog for *Psychology Today*, by the *Guardian Online*, by the *Wall Street Journal Online*, by *Nature* blogs, by *Science News*, &c.
- ⊙ January 2012: Interviewed for “Le 15 minutes” newscast, RTBF La Deux Television, on “apps and new technologies”.
- ⊙ October 2011: Interviewed for “Questions à la Une” (RTBF television) on paranormal research.
- ⊙ June 2011: Portrait and article by Philippe Lambert in *FNRS News* 85 titled “Le fantôme de la liberté”.
- ⊙ June 2011: Portrait and article by Philippe Lambert in *Athena* 271 titled “Le Libre arbitre n’est-il qu’une illusion?”.
- ⊙ 29th July 2010: Interview on BEL RTL Radio Newscast about the dangers of using cell phones while driving.
- ⊙ June 2010: Extensively quoted in the article “Une journée sous pilote automatique”, *Sciences et Vie Junior* 249, p 52.
- ⊙ 25th April 2010: Portrait and extended interview for the Sunday supplement of the daily *Publica* (Portugal).
- ⊙ 20th April 2010: Participation in a televised debate around the 175th Anniversary of the Université Libre de Bruxelles, *Quai des Belges*, ARTE Belgique television.
- ⊙ 15th April 2010: Featured in article titled “Transformez votre cerveau” in the general public weekly *Femmes d’Aujourd’hui*, 15, pp. 32-35.
- ⊙ 9th April 2010: Interview for prime time news on SIC television (Portugal) on intuition and decision-making.
- ⊙ 8th April 2010: Interview for the “*Jornal de Noticias*” (Portugal), on intuition and decision-making.
- ⊙ March 2010: Portrait d’Auteur (extended interview): Axel Cleeremans by Jan Sloover. In *Lectures*, 165, 26-30.
- ⊙ 16th March 2010: Interview for “Niouzz”, *La Une Television*, on the occasion of the opening of the “1001 cerveaux” exhibit, Centre de Culture Scientifique, Parentville, Belgium.
- ⊙ 15th February 2010: Live radio interview for “Cocktail Curieux” on “*La Première Radio*” on the brain.
- ⊙ April-June 2009: Participation as expert in the RTBF television science-based gameshow “GPiG” (5 appearances).
- ⊙ 21st October 2008: Radio interview on “Radio Campus” for “Science sans conscience n’est que ruine de l’âme, mais conscience sans science n’est qu’un vilain gros mot ” (with Alexandre Wajnberg).
- ⊙ 28th September, 2008: Series of three radio interviews on “Cognitive Science” for “Semence de curieux” on

La Première Radio (with Jacques Olivier).

- ⊙ 20th May 2008: Live Radio interview on Neuromarketing for “Tout Autre Chose” on La Première Radio.
- ⊙ January-March 2008: Participation as expert in the RTBF television science-based gameshow “GPiG” (7 appearances).
- ⊙ 21st November 2007: Featured on “Tout s’explique”, a prime-time science-based show on RTL-TVI.
- ⊙ 17th August 2007: Interview for “Au Quotidien” (La Une Television), on Memorizing Passwords.
- ⊙ 04th August 2007: Interview for Radio France, on Artificial Intelligence.
- ⊙ 14th May 2007: Interview for “La Première” Radio, on chat bot technology.
- ⊙ 27th April 2007: Participation in a debate dedicated to Neuromarketing, on the “La fibre du Libre” broadcast (Radio Campus).
- ⊙ 18th March 2007: Participation as expert in the RTL-TVI live television science-based gameshow “Le grand Test National de QI”
- ⊙ 12th February 2007: Participation in a televised debate on Artificial Intelligence (“Opinion Publique”, RTBF)
- ⊙ October-November 2006: Participation as expert in the RTBF television science-based gameshow “GPiG” (3 appearances).
- ⊙ June 2nd 2006: Interview (with Thierry Melchior) on the “La fibre du Libre” broadcast (Radio Campus), on “Hypnosis”.
- ⊙ 21st April 2006: Interview (with Jacques Van Helden) on the “La fibre du Libre” broadcast (Radio Campus), on “Free will”.
- ⊙ 7th March 2006: Interview (with Jean-Noël Missa & Serge Schiffman) on the “Tout Autre Chose” broadcast, La Une Radio, on “Neurosciences”.
- ⊙ 24th January 2006: Featured on “Matière Grise”, La Une Television, on “Neuromarketing”.
- ⊙ 7th November 2005: Interview on Radio Campus
- ⊙ 1st April 2005: Interview on Radio Campus
- ⊙ 30th June 2003: Interview on Radio France International, on “Neuroscience and Consciousness”
- ⊙ 2002-2004: Several appearances on RTL and RTBF television newscasts
- ⊙ 2000: Interview on BBC World Radio, on “Sleep and plasticity”
- ⊙ Quoted or interviewed in numerous print publications: La Libre Belgique, La Libre Essentielle, The Telegraph, New Scientist, La Recherche, Athena, Le Soir, &c.