

# AXEL CLEEREMANS

*March 2018*

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**Work address**

Consciousness, Cognition & Computation Group (CO3)  
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**Home address**

75, Ave. Guillaume Gilbert  
1050 Bruxelles  
Belgium  
Phone: (32-2) 646-8597

**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.

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## 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

- 2016** **Evens Foundation Science Prize 2016** to Emilie Caspar, Julia Christiensen, **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** **Elected member of the Royal Academy of Sciences, Letters and Fine Arts of Belgium**
- 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”

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## FUNDING

- Currently**
- 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”.
- Principal Investigator, ERC Advanced Grant**  
2014-2019 €2.3M European Research Council Grant titled “The Radical Plasticity Thesis”.
- 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. Vogele, 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. Students	Completion date	Dissertation title
Arnaud Destrebecqz	2000	<i>Mesures directes et indirectes de l'apprentissage implicite.</i>
Maud Boyer	2001	<i>Les mécanismes d'abstraction dans</i>

Nicolas Schmidt	ABD	<i>l'apprentissage de sequences: Etudes empiriques et modélisation.</i>
Michael Dubois	ABD	<i>(Implicit learning and amnesia)</i>
Dionyssios Theofilou	ABD	<i>(Skill acquisition)</i>
Vinciane Gaillard	2007	<i>(Forward models of sequence learning)</i>
		<i>Relations entre conscience et contrôle dans l'apprentissage de sequences: 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 &amp; 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	exp. 2016	<i>Conscious vs. unconscious learning</i>
Irène Cogliati Dezza	exp. 2017	<i>Decision-making and consciousness</i>
Maité Camara Lopez	exp. 2017	<i>Virtual reality &amp; neuropsychology</i>
Dalila Achoui	exp. 2018	<i>ERC project</i>
Arnaud Beauny	exp. 2019	<i>ERC project</i>
Santiago Munoz Moldes	exp. 2019	<i>ERC project</i>
Laurène Vuillaume	exp. 2019	<i>ERC project</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)

Julie Bertels	2009-2012	FRS-FNRS research associate, ULB (BE)
Vinciane Gaillard	2009-2014	“Brains Back to Brussels” fellow
Gaëtane Deliens	2013-2014	Greentic Program fellow
Martijn Wokke	2014-2017	ERC post-doctoral fellow
Filip Van Opstal	2014-2016	ERC post-doctoral fellow
Nura Sidarus	2016-2016	ERC post-doctoral fellow
Julie Bertels	2016-2017	ERC post-doctoral fellow

## SUPERVISION

- ▶ Yearly supervision of about 2-4 undergraduate thesis projects (“Mémoires”) since 1993.
- ▶ Member of the jury on **65** 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 2<sup>nd</sup>.
  - **1996: Theano Anastasopoulou**, University College London (U.K.), April 15<sup>th</sup>.
  - **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 22<sup>nd</sup>.
  - **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 9<sup>th</sup>.
  - **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 10<sup>th</sup>.
  - **2003: José Quesada**, “Latent Problem Solving Analysis (LPSA): A computational theory of representation in complex, dynamic problem solving tasks, Universidad de Granada (Spain), May 6<sup>th</sup>.
  - **2003: Jean-Christophe Sarrazin**: “La mémoire spatio-temporelle : Variabilité de la réponse et reproductibilité du souvenir”, Université de la Méditerranée (France), October 24<sup>th</sup>.
  - **2003: Olivia Trinquard**: “Apprentissage Implicite, Langage et Attention : Le cas des dépendances discontinues”. Université de Bourgogne (France), November 24<sup>th</sup>.
  - **2003: Gustav Kuhn**: « Implicit learning of musical structures », University of Sussex (UK), December 10<sup>th</sup>.
  - **2004: Jean-Marc Blanc**: “Traitement de la prosodie par un réseau récurrent temporel”, Université Lumière Lyon II (France), April 6<sup>th</sup>.
  - **2004: Leonora Wilkinson**: “Methods of assessing unconscious processes in implicit sequence learning”, University College London (UK), December 8<sup>th</sup>.
  - **2005: Natacha Deroost**, “Perceptual and motor contributions to sequence learning in serial reaction time tasks”, Vrije Universiteit Brussel (Belgium), May 25<sup>th</sup>.
  - **2005: Jean-Noël Missa** (A.E.S. thesis), “Naissance de la Psychiatrie Biologique”, Université Libre de Bruxelles (Belgium), May 24<sup>th</sup>.
  - **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 9<sup>th</sup>.
  - **2006: Elizabeth Norman**: “Gut feelings and unconscious thought: An exploration of fringe consciousness in implicit cognition”, University of Bergen (Norway), March 30<sup>th</sup>.
  - **2006: Lionel Naccache** (HDR thesis), “Vers une neurophysiologie cognitive de la conscience”, Université Pierre et Marie Curie Paris VI (France), June 20<sup>th</sup>.
  - **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 15<sup>th</sup>.
  - **2006: Nicolas Ruh**, “Acquisition and control of sequential routine activities; Modelling and empirical studies”, Birkbeck College, University of London (U.K.), March 16<sup>th</sup>.
  - **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 25<sup>th</sup>.
  - **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 10<sup>th</sup>.

- **2007: Hélène Gauchou**, “Informations relationnelles en mémoire à court terme visuelle”, Université Paris V (France), December 13<sup>a</sup>.
- **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 18<sup>a</sup>.
- **2008: Maximilien Chaumon**, “Apprentissage implicite du contexte visuel et guidage de la perception: Expériences MEG et EEG intracrânien”, Université Pierre et Marie Curie (Paris, France), June 3<sup>a</sup>.
- **2008: Sophie Portrat**, “Mémoire de travail et fonctions exécutives: L’apport du modèle de partage temporel des ressources”, Université de Bourgogne (Dijon, France), October 17<sup>a</sup>.
- **2008: Dominique Ginjac**, “Adéquation Algorithme Architecture: Aspects logiciels, matériels et cognitifs”, Thèse d’Habilitation à Diriger des Recherches, Université de Bourgogne (Dijon, France), December 9<sup>a</sup>.
- **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 6<sup>a</sup>.
- **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 11<sup>a</sup>.
- **2009: Elian de Kleine**, “Cognitive Control of sequential behavior”, Ph.D. Thesis, Universiteit Twente (The Netherlands), June 18<sup>a</sup>.
- **2009: Ryan Scott**, “The role of familiarity in implicit learning and the emergence of conscious knowledge”, DPhil Thesis, University of Sussex (England), September 8<sup>a</sup>.
- **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 25<sup>a</sup>.
- **2009: Manuel Schabus**, “Residual Cognitive Processing in Altered States of Consciousness”, Habilitationsschrift, Universität Salzburg (Austria), September 30<sup>th</sup>.
- **2009: Yvonne Delevoeye-Turell**, “Traces efférentes et Attention motrice pour une sens pré-réflexif d’Agentivité”, Thèse d’Habilitation à diriger des recherches, Université Lille III (France), October 23<sup>a</sup>.
- **2009: Utku Salihoglu**, “Toward a brain-like memory with recurrent neural networks”, Thèse de Doctorat (Sciences), Université Libre de Bruxelles (Belgique), November 24<sup>a</sup>.
- **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 17<sup>a</sup>.
- **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 10<sup>a</sup>.
- **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 20<sup>a</sup>.
- **2010: Devin Blair Terhune**, “Dissociation and heterogeneity in high hypnotic suggestibility”, Ph.D. Thesis (Psychology), University of Lund (Sweden), September 22<sup>a</sup>.
- **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 10<sup>th</sup>.
- **2011: Nicolas Rougier**, “Fondements biologiques pour le calcul distribué, numérique, et adaptatif”, Thèse d’Habilitation à Diriger les Recherches, Université Nancy 2 (France), May 19<sup>th</sup>.
- **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 29<sup>a</sup>.
- **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 10<sup>a</sup>.
- **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 30<sup>a</sup>.
- **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 8<sup>a</sup>.
- **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 3<sup>a</sup>.
- **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 27<sup>a</sup>.
- **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 20<sup>a</sup>.
  - **2013: Pierre Perruchet**, Thèse d’Habilitation au départ à la retraite, Université de Bourgogne, Dijon (France), December 3<sup>a</sup>.
  - **2013: Florence Campana**, “L’impact de l’organisation hiérarchique du système visuel sur la conscience: Étude empirique et implications théoriques sur l’expérience subjective”, Thèse de doctorat Mention Sciences Cognitives, Université Pierre et Marie Curie, Paris (France), December 10<sup>a</sup>.
  - **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 17<sup>a</sup>.
  - **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 Beckstein), University of Cambridge (Cambridge, UK), January 23<sup>a</sup>.
  - **2015: Mads Jensen**. “The awareness and ownership of intentional actions”. Ph.D. thesis in Psychology (Director : Pr. Morten Overgaard), Aarhus University (Aarhus, Denmark), April 20<sup>a</sup>.
  - **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 29<sup>a</sup>.
  - **2016: Markus Vidding**. “Investigating free will in cognitive neuroscience”. Ph.D. thesis in Psychology (Director : Pr. Morten Overgaard), Aarhus University (Aarhus, Denmark), March 9<sup>a</sup>.
  - **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 27<sup>a</sup>.
  - **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 19<sup>a</sup>.
  - **2016: Pieter Moors**. “Lauching awareness and chasing consciousness”. Ph.D. thesis in Psychology (Director : Pr. Johan Wagemans), Katholieke Universiteit Leuven (Belgium), May 31<sup>a</sup>.
  - **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 12<sup>a</sup>.
  - **2017 : Claire Sergent**. Habilitation à diriger des recherches. Université René Descartes, Paris (France), March 29<sup>a</sup>.
  - **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 Beckstein), Cambridge University (U.K.), May 16<sup>a</sup>.
  - **2017: Laurence Questienne**. “Subjective experiences in conflict tasks”. Ph.D. thesis in Psychology (Director : Pr. Wim Gevers), Université libre de Bruxelles (Belgium), October 30<sup>a</sup>.
  - **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 16<sup>a</sup>.
  - **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 17<sup>a</sup>.
  - **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 20<sup>th</sup>.

## 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 Belgian Advisory Committee on Bioethics**, Federal Public Service of Public Health, Belgium.
- 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
- 2012 —** **Vice-director** of the ULB Neuroscience Institute (UNI), Université Libre de Bruxelles
- 2012 — 2018** **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 21<sup>st</sup> at the Vrije Universiteit Brussel (Belgium).
- **Workshop leader**, "A brief introduction to computational modeling in cognitive science" workshop organized at the 1<sup>st</sup> 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**, 2<sup>nd</sup> 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**, 14<sup>th</sup> International Summer School in Cognitive Science, held July 9-28, New Bulgarian University (Sofia, Bulgaria),
- **Member of the scientific committee** of the 13<sup>th</sup> 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**, 3<sup>rd</sup> 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 18<sup>th</sup> 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 Vandenbussche 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 1<sup>st</sup>, 2015.
- **Chair** of a plenary symposium titled “**Linking metacognition, predictive coding, and consciousness**” at the 20<sup>th</sup> 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 20<sup>th</sup> meeting of the European Society of Cognitive Psychology, Potsdam (Germany), September 3<sup>rd</sup>, 2017.

## MEDIA

- Design and maintenance of several web sites:

1995-2004: Belgian Psychological Society

1997-2000: Faculté des Sciences Psychologiques et de l'Éducation, Université Libre de Bruxelles

1998-2002: European Society for Cognitive Psychology

## 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
- **Member** of the “visitiatiecommissie Psychologie” (Vlaamse Interuniversitaire Raad), 2003
- **Member** of the 22<sup>nd</sup> 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 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-
- **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-

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## EDITORIAL ACTIVITIES

- 2009-        **Field Editor-in-Chief**, *Frontiers in Psychology*
- 2009-        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*

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## 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-**)

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## 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. Giraudo): 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)

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## PUBLICATIONS

### BOOKS (4)

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. Kouider, S., & **Cleeremans, A.** (under contract). *From neurons to the mind: A guide to the science of consciousness*. Oxford University Press.
4. **Cleeremans, A.** & Richelle, M. (under contract). *La conscience* (provisional title). Mardaga.

### EDITED BOOKS (3)

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

### 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 (27)

14. 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.
15. 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](#)
16. **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.
17. 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.
18. 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.
19. 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.
20. **Cleeremans, A.** (2015). Conscience Artificielle. In Missa, J.-N., Hottos, G., & Perbal, L. *L'humain et ses préfixes*. Paris: Vrin, pp. 223-241.
21. 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.
22. 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
23. **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 11<sup>th</sup> Biannual symposium on the science of Behaviour)*, Universidad de Guadalajara, pp. 43-77.
24. **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.
25. 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.
26. Chambaron-Ginhac, S., Berbérian, B., Delbecque, 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.
27. **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.
28. **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.
29. **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 28<sup>th</sup> International Congress of Psychology)*, Hove, UK: Psychology Press, pp. 401-418.
30. **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.
31. 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.
32. **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.
  33. 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.
  34. **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,
  35. **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.
  36. **Cleeremans, A.** (1997). Principles for implicit learning. In D. Berry (Ed.), *How implicit is implicit learning?* (pp. 195-234). Oxford (England): Oxford University Press.
  37. **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]
  38. **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.
  39. **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]
  40. 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 (137)

41. O'Donnell, M., Nelson, L. D., Ackermann, E. Aczel, B., Akhtar, A. Aldrovandi, S., Alshaif, N. Andringa, R., Aveyard, M. Babincak, P., Balatekin, N., Baldwin, S., Banik, G., Baskin, E., Bell, R., Bialobrzeska, O., Birt, A., Boot, W. R., Braithwaite, S. R., Briggs, J. C., Buchner, A., Budd, D., Budzik, K., Bullens, L., Bulley, R. L., Cannon, P.R., Cantarero, K. Cesario, J., Chambers, S., Chartier, C.R., Chekroun, P., Chong, C., **Cleeremans, A.**, Coary, S., Coulthard, J., Cramwinckel, F.M., Denson, T. F., Díaz-Lago, M., DiDonato, T. E., Drummond, A., Eberlen, J., Ebersbach, T., Edlund, J. E., Finnigan, K. M., Fisher, J., Frankowska, N., García-Sánchez, E., Golom, F. D., Graves, A. J., Greenberg, K., Hanioti, M., Hansen, H. A., Harder, J. A., Harrell, E. R., Hartanto, A., Inzlicht, M., Johnson, D. J., Karpinski, A., Keller, V. N., Klein, O., Koppel, L., Kraemer, E., Lantian, A., Larson, M. J., Légal, J. B., Lucas, R. E., Lynott, D., Magaldino, C. M., Massar, K., McBee, M., McLatchie, N., Melia, N., Mensink, M., Mieth, L., Moore-Berg, S., Neeser, G., Newell, B. R., Noordewier, M. K., Özdoğan, A. A., Pantazi, M., Parzuchowski, M., Peters, K., Philipp, M. C., Pollmann, M. M. H., Rentzels, P., Rodríguez-Bailón, R., Röer, J. P., Ropovik, I., Roque, N. A., Rueda, C., Rutjens, B. T., Sackett, K., Salamon, J., Sánchez-Rodríguez, À, Saunders, B. Schaafsma, J., Schulte-Mecklenbeck, M., Shanks, D. R., Sherman, M. F., Steele, K. M., Steffens, N. K., Sun, J., Susa, K. J., Szasz, B., Szollosi, A., Tamayo, R., Tinghög, G., Tong, Y. Y., Tweten, C., Vadillo, M. A., Valcarcel, D., Van der Linden, N., van Elk, M., van Harreveld, F., Västfjäll, D., Vazire, S., Verdun, P., Williams, M. N., Willis, G., Wood, S. E., Yang, C., Zerhouni, O., Zheng, R., Zrubka, M. (in press). Registered replication report: Dijksterhuis & van Knippenberg (1998). *Perspectives on Psychological Science*.
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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

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## INVITED SEMINARS, CONFERENCES & WORKSHOPS

- 2018** **Dopage: Influence des nouvelles technologies.** Invited Plenary Symposium presentation at the 16<sup>e</sup> “Congrès de l’Encéphale”, Paris (France), January 25<sup>e</sup>.
- Raison, intuition, émotion & conscience.** Invited lecture in the “Philosophie & Management” conference cycles, Solvay School of Management, Université Libre de Bruxelles (Belgium), January 19<sup>e</sup>.
- 2017** **Consciousness.** Invited presentation at the “Slush Y Science” event, Helsinki (Finland), December 1<sup>e</sup>.
- The radical plasticity thesis: Consciousness is something that the brain learns to do.** Invited presentation at the “Designed Mind” workshop, Edinburgh (U.K.), November 10<sup>e</sup>.
- Computational principles for consciousness.** Keynote lecture for the IB2 Bioinformatics student day, Bruxelles (Belgium), October 13<sup>e</sup>.
- La conscience dans tous ses états.** Invited inaugural lecture for the Institut des Hautes Etudes de Belgique, Bruxelles (Belgium), October 4<sup>e</sup>.
- Soumission à l’autorité et sentiment d’agentivité.** Invited presentation at the colloquium “La désobéissance”, Ottignies (Belgium), September 19<sup>e</sup>.
- Coercion and the elusive sense of Agency.** Evens Science Prize lecture, The British Academy, London (UK), July 6<sup>e</sup>.
- Sense of Agency.** Invited presentation at the Agency Workshop, Utrecht (The Netherlands), June 22<sup>e</sup>.
- Consciousness: The Radical Plasticity Thesis.** Invited colloquium lecture at the Chinese Academy of Sciences (Beijing, China), June 9<sup>e</sup>.
- Implicit content.** Invited presentation at the 6<sup>e</sup> Seminar on Implicit learning, ELTE, Budapest (Hungary), May 25<sup>e</sup>, 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 25<sup>a</sup>.

**La conscience.** Invited lecture in the CEPULB conference cycle, Université Libre de Bruxelles (Belgium), January 17<sup>a</sup>.

**Psychologie et émotions.** Invited lecture in the “Philosophie & Management” conference cycles, Solvay School of Management, Université Libre de Bruxelles (Belgium), January 13<sup>a</sup>.

**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 22<sup>a</sup>.

**Perdons-nous conscience?** Intervention as discussant after the conference of Lionel Naccache for *Cultures d’Europe*, Université libre de Bruxelles (Brussels, Belgium), December 6<sup>a</sup>.

**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 24<sup>a</sup>.

**Consciousness as learned metacognition.** Invited seminar in the Zangwill Club seminar series, Department of Psychology, Cambridge University (U.K.), November 11<sup>a</sup>.

**La puissance de la conscience : Hypnose, placebo et suggestion.** Conference for the « Rencontres Recherche et Création » event, Avignon (France), July 8<sup>a</sup>.

**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 26<sup>a</sup>.

**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 8<sup>a</sup>.

**Unconscious learning with conscious cues.** Invited keynote address, Fith Implicit Learning Seminar, Lancaster University (UK), June 25<sup>a</sup>.

**Sense of agency and responsibility.** Invited lecture at the INECO symposium, Buenos Aires (Argentina), June 21<sup>a</sup>.

**Twenty years of ASSC.** Invited lecture for the opening ceremony of the 20<sup>a</sup> Meeting of the Association for the Scientific Study of Consciousness, Buenos Aires (Argentina), June 14<sup>a</sup>.

**The power of consciousness.** Invited lecture at the 27<sup>a</sup> 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 22<sup>a</sup>.

**Consciousness: The Radical Plasticity Thesis.** Invited colloquium at the BMIC, Maastricht University (The Netherlands), April 18<sup>a</sup>.

**The Radical Plasticity Thesis.** Invited lecture at the Psychology Departement, Universität Gießen, (Germany), January 20<sup>a</sup>.

**The Radical Plasticity Thesis.** Invited lecture at the MBIC (Cognitive Neuroscience), Maastricht University, (The Netherlands), April 18<sup>a</sup>.

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

**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 1<sup>a</sup>.

**Consciousness: The Radical Plasticity Thesis.** Invited seminar at the Department of Psychology, University of Edinburgh, (U.K.), November 13<sup>a</sup>.

**Open Access Publishing.** Invited presentation at the Publication Strategies Workshop, Doctoral School of Psychology, Université Libre de Bruxelles (Belgium), November 6<sup>a</sup>.

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

**The reach of the unconscious.** Invited presentation at the Jerusalem Conference on Conscious and Unconscious processes, Hebrew University of Jerusalem, Jerusalem (Israel), August 25<sup>a</sup>.

**The Perruchet effect: Dissociating motor behaviour from conscious expectancy.** Unscheduled, uninvited pirate presentation at the 19<sup>a</sup> Meeting of the Association for the Scientific Study of Consciousness, Paris (France), July 7<sup>a</sup>-10<sup>a</sup>. 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 27<sup>a</sup>.

**Untitled.** Invited presentation at the 4<sup>a</sup> Seminar on Implicit Learning, C-Lab, Krakow (Poland), June 6<sup>a</sup>.

**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 26<sup>a</sup>.

**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 19<sup>a</sup>.

**Consciousness: The Radical Plasticity Thesis.** Invited seminar at the Laboratory of Cognitive Neuroscience, Brain-Mind Institute, EPFL (Switzerland), April 30<sup>a</sup>.

**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 24<sup>a</sup>.

**Consciousness: The Radical Plasticity Thesis.** Invited seminar at the Center for Functionally Integrative Neuroscience, University of Aarhus (Denmark), April 20<sup>a</sup>.

**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 2<sup>a</sup>.

**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 14<sup>a</sup>.

**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 13<sup>a</sup>.

**The reach of the unconscious.** Invited lecture at the Jean Nicod Institute (Paris, France), February 19<sup>a</sup>.

**The reach of the unconscious.** Invited lecture at the Center for Philosophical Psychology, Universiteit Antwerp (Antwerp, Belgium), February 12<sup>a</sup>.

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

**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 6<sup>a</sup>.

**The Radical Plasticity Thesis.** Invited lecture at the Brain Prize Meeting, Hindsigavl Castle, (Middelfart, Denmark), November 3<sup>a</sup>.

**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 17<sup>a</sup>.

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

**The Reach of the Unconscious.** Invited seminar at the International Cognitive Science Summer School, Babes-Bolyai University (Cluj-Napoca, Romania), July 29<sup>a</sup>.

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

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

**The Radical Plasticity Thesis.** Invited seminar at the Laboratory of Experimental Psychology, Katholieke Universiteit Leuven (Leuven, Belgium), June 10<sup>a</sup>.

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

**Conscience et conscience de soi.** Invited seminar at the Laboratoire de Psychologie Médicale et d’Addictologie, Brugmann Hospital (Brussels, Belgium), March 11<sup>a</sup>.

**The Radical Plasticity Thesis.** Invited colloquium at the School of Psychology at the University of Sussex (U.K.), February 18<sup>a</sup>.

**Five invited lectures on consciousness as holder of the Francqui chair 2014,** Faculty of Psychology,

Université de Liège (Liège, Belgium), February 5<sup>a</sup>, 12<sup>a</sup>, 19<sup>a</sup>, 26<sup>a</sup>, March 5<sup>a</sup>.

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

**2013 The Radical Plasticity Thesis.** Invited seminar at the Ecole Normale Supérieure (Paris, France), December 11<sup>a</sup>.

**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 5<sup>a</sup>.

**The Reach of the Unconscious.** Invited presentation on the occasion of the retirement of Pr. Pierre Perruchet (Université de Bourgogne, France), December 4<sup>a</sup>.

**The Reach of the Unconscious.** Invited colloquium for the Psychology Department, University of Bern (Switzerland), November 28<sup>a</sup>.

**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 10<sup>a</sup> Pangborn Sensory Science Symposium, Rio de Janeiro (Brazil), August 11-15.

**This is not a keynote.** Invited keynote lecture at the 2<sup>a</sup> 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 14<sup>a</sup>.

**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 13<sup>a</sup>.

**The reach of the unconscious.** Invited lecture at the Department of General Psychology, Saint-Petersburg State University (Russian Federation), May 11<sup>a</sup>.

**Models of consciousness.** Keynote lecture at the Workshop “Models of consciousness and implications”, Lorentz Center, Leiden (The Netherlands), April 4<sup>a</sup>.

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

**Learning to be metacognitive.** Invited colloquium at All Souls College, Oxford University, February 21<sup>a</sup>.

**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 7<sup>a</sup>.

**2012 Consciousness: The Radical Plasticity Thesis.** Invited colloquium at the Institute for Cognitive Neuroscience, University College London (U.K.), October 15<sup>a</sup>.

**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 7<sup>a</sup>.

**Conscience et liberté.** Invited seminar, Department of Neurology, Université Catholique de Louvain (Belgium), May 31<sup>a</sup>.

**Apprentissages avec et sans conscience.** Invited presentation at the “58<sup>ème</sup> colloque franco-belge des inspecteurs – Le cerveau dans tous ses états”, Namur (Belgium), May 15<sup>a</sup>.

**Consciousness: The Radical Plasticity Thesis.** Invited colloquium for the Sylvius Lectures Series, Leiden Institute for Brain and Cognition, University of Leiden (The Netherlands), March 15<sup>a</sup>.

**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 12<sup>a</sup>.

**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 9<sup>a</sup>.

**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 16<sup>a</sup>.

**La fonction en psychologie.** Invited seminar for the GRAL doctoral seminar series, Faculty of Philosophy, Université Libre de Bruxelles (Belgium), November 25<sup>a</sup>.

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

**Apprendre à être conscient.** Invited lecture for the “Epistémologie des Neurosciences” event, Institut

supérieur de philosophie, Université Catholique de Louvain, Bruxelles (Belgium), November 17<sup>a</sup>.

**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 29<sup>a</sup>.

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

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

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

**Consciousness: The Radical Plasticity Thesis.** Invited colloquium at the Psychology Department, Ludwig-Maximilians-Universität (Munich, Germany), May 18<sup>a</sup>.

**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 9<sup>a</sup>.

**Consciousness: The Radical Plasticity Thesis.** Invited seminar at the Brain-Mind Institute, EPFL, Lausanne (Switzerland), March 23<sup>a</sup>.

**Connectionist models of recursion.** Invited presentation at the International Conference on Language and Recursion, Mons (Belgium), March 15<sup>a</sup>.

**Le malaise des individus.** Public debate at the Passa Porta Bookstore, Bruxelles (Belgium), February 8<sup>a</sup>.

**Associations et dissociations entre comportement et conscience.** Invited presentation at the “Foundation Marketing” group, Rhode Saint-Genèse (Belgium), February 9<sup>a</sup>.

**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 16<sup>t</sup>.

**Qu’est-ce-que la conscience?** Public conference for the cycle “Le cerveau en questions”, Center for Scientific Culture, Charleroi (Belgium), October 14<sup>a</sup>.

**La conscience dans tous ses états.** Public conference for the cycle “Rencontres philosophiques”, La Vénérie, Brussels (Belgium). October 4<sup>a</sup>.

**Des neurones à l’esprit: Les mécanismes de la conscience.** Seminar delivered at the André Vésale Hospital, Charleroi (Belgium). September 27<sup>a</sup>.

**The Radical Plasticity Thesis.** Invited colloquium delivered at the Psychology Department, University of Lund (Sweden), September 22<sup>a</sup>.

**The Radical Plasticity Thesis.** Invited keynote presentation at the 4<sup>a</sup> International Conference on Cognitive Science, Tomsk (Russia), June 22<sup>a</sup> [Declined for scheduling conflict]

**The reach of the unconscious.** Invited seminar delivered at the Marketing Department of the Ecole de Management, Grenoble (France), June 10<sup>a</sup>

**Apprendre à être conscient.** Invited seminar at the Laboratoire URECA, Université Charles de Gaulle, Lille (France), May 20<sup>a</sup>.

**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 11<sup>a</sup>

**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 12<sup>a</sup>

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

**Le cerveau.** "Ignite" presentation at the Parc d'Attraction Scientifique in the context of the "1001 cerveaux" exhibit, Mons (Belgium), March 15<sup>a</sup>.

**The radical plasticity thesis.** Invited conference at the Centre for the Study of the Senses (CenSes), University College London (U.K.), March 12<sup>a</sup>.

**Learning to be conscious.** Invited keynote presentation at the 11<sup>a</sup> Guadalajara Symposium on the Science of Behavior, Guadalajara (Mexico), February 22<sup>a</sup>

**Impact et limites de l'apprentissage implicite.** Invited seminar at the Collège de France, Paris



(France), February 2<sup>a</sup>

**Conscience et Espace**, Institut d'Art Contemporain, Lyon (France), January 22<sup>a</sup>.

- 2009** **Consciousness and neuroscience.** Invited keynote address at the ESCAN kick-off meeting, Amsterdam (The Netherlands), December 10<sup>a</sup>.  
**Measuring consciousness.** Invited keynote address at the "Consciousness and its measures"(COST Action BM0605) conference, Limmasol, Cyprus, December 1<sup>a</sup>.  
**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 30<sup>a</sup>.  
**Prise de decision 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 5<sup>a</sup>.  
**How we learn to be conscious,** Invited colloquium in the Neurowissenschaftliches Kolloquium Uniklinik Köln series, University of Cologne (Germany), September 23<sup>rd</sup>.  
**Learning to be conscious,** Invited conference for the "The Brain Unravalled" exhibition, Slade Research Centre, University College London, September 10<sup>a</sup>.  
**The Radical Plasticity Thesis,** Invited conference for the L.E.C.A initiative, Universität Leipzig (Germany), June 16<sup>a</sup>.  
**Intuition, conscience, neurosciences & prise de décision.** Invited conference for the Solvay Continued Education Program, Brussels (Belgium), June 12<sup>a</sup>.  
**Consciousness.** "Pecha Kucha" (20 slides of 20 seconds each) invited presentation for 8<sup>a</sup> Pecha Kucha Night, Claridge (Brussels), May 14<sup>a</sup>.  
**Consciousness.** "Pecha Kucha" (20 slides of 20 seconds each) invited presentation for the CampusTalk initiative, Vrije Universiteit Brussel, March 25<sup>a</sup>.  
**La conscience dans tous ses états.** Invited conference in the "Day After" conference series, Café des Fous (Paris, France), March 18<sup>a</sup>.  
**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 11<sup>a</sup>.  
**Computational theories of consciousness: The radical plasticity thesis.** Invited colloquium, Cognito Group, Universiteit van Amsterdam (Amsterdam, The Netherlands), January 6<sup>a</sup>.
- 2008** **What defines consciousness?** Invited plenary address, Belgian Brain Congress 2008 (Oostende, Belgium), October 24<sup>a</sup>.  
**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 20<sup>a</sup>.  
**Conscious and unconscious processing: A conceptual sketch.** Invited colloquium, Fritz Strack group, University of Wurzburg (Wurzburg Germany), July 9<sup>a</sup>.  
**Consciousness and metarepresentation: A computational sketch.** Invited presentation at the CSCA symposium titled "Distributed Processing Models", Universiteit van Amsterdam, (Amsterdam, The Netherlands), June 27<sup>a</sup>.  
**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 6<sup>a</sup>.  
**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 1<sup>a</sup>.  
**Consciousness and Control.** Keynote lecture presented at the "Action Monitoring and Behavioural Adjustment" Graduate Student Workshop, RWTHAachen University (Germany), March 15<sup>a</sup>.  
**Comment apprendre sans conscience nous fait apprendre à être conscients.** Invited conference presented at the Archives Jean Piaget, Université de Genève (Switzerland), March 11<sup>a</sup>.
- 2007** **The radical plasticity thesis.** Invited conference presented at the Instituto de Filosofia de Langagem Universidade Nova de Lisboa (Lisbon, Portugal), on the occasion of a Workshop titled "Emotion, Cognition, and Communication, December 20<sup>a</sup>.  
**Conscience et apprentissage.** Invited conference presented on the occasion of a symposium celebrating the career of Jean-Paul Haton (Saint-Dié des Vosges, France), 25<sup>a</sup> October.

**Learning and consciousness.** Invited keynote lecture presented at the NWO Autumn School on “Learning and Social Cognition” (Arnhem, The Netherlands), 14<sup>th</sup> 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 19<sup>th</sup>.

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

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

**Learning and consciousness.** Invited seminar at the “Laboratoire Langage, Mémoire et Développement Cognitif, CNRS”, Université de Poitiers (France), January 11<sup>th</sup>.

**Learning to be conscious.** Invited seminar at the “Laboratoire d’étude des mécanismes cognitifs, CNRS”, Université de Lyon 2 (France), February 5<sup>th</sup>.

**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 27<sup>th</sup>.

**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 21<sup>st</sup>-28<sup>th</sup>.

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

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

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

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

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

**Corrélatés 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 16<sup>th</sup>.

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

**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 2<sup>nd</sup>.

**Les corrélats neuraux de la conscience.** Séminaire invité présenté au Service de Psychiatrie, Hôpital Erasme (Brussels, Belgium), February 17<sup>th</sup>.

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

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

**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 26<sup>th</sup>.

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

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

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

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

- 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 11<sup>a</sup>.
- 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 11<sup>a</sup>.  
**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 16<sup>a</sup> 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 22<sup>a</sup>.  
**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 11<sup>a</sup> meeting of the European Society for Philosophy and Psychology, Turin (Italy), July 9<sup>a</sup>-12<sup>a</sup>.  
**The search for the computational correlates of consciousness.** Invited keynote presentation at the 7<sup>a</sup> 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 connexionnistes 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

- **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 16<sup>e</sup>. [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 4<sup>e</sup>, 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 31<sup>e</sup>, 2016. Featured in France 2 Television’s prime time newscast, on “Intuition”. [Link](#)
- March 12<sup>e</sup>, 2016. Interview for [Quartz](#). [Link](#).
- February 18<sup>e</sup>, 2016. Worldwide coverage of *Caspar et al.* (2016). [Link](#)
- February 13<sup>e</sup>, 2016. Interviewed in *Victoire*, on the cognitive impact of new technologies.
- January 21<sup>e</sup>, 2016. Televised feature for the RTL-TVI broadcast *Tout s’explique*, on priming. [Link](#)
- January 17<sup>e</sup>, 2016: Featured in [Quartz](#) about our research on free will and impulsivity. [Link](#)
- January 8<sup>e</sup>, 2016: Featured in *New Scientist* about our research on free will and impulsivity. [Link](#)
- January 13<sup>e</sup>, 2016. Featured in *Le Soir*, about the death of David Bowie.
- September 2015. Featured in the ULB program “12 mois, 12 experts”. [Link](#)
- September 8<sup>e</sup>, 2015. Featured in the ULB program “Dessine-moi la communication. [Link](#)
- May 23<sup>e</sup>, 2015. Featured in *De Standaard*, on the ethics of self-driving cars. [Link](#)
- January 28<sup>e</sup>, 2015: Featured in the *Science Careers* article “Scientists under the microscope”. [Link](#)
- January 8<sup>e</sup>, 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 22<sup>e</sup>, 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 7<sup>e</sup>, 2013: Featured in National Geographic online. [Link](#)
- May 31<sup>e</sup>, 2013: Live interview on RTL+ (RTL-TVI Television), on memory. [Link](#)
- April 2<sup>e</sup>, 2013: Televised interview for the RTBF *La Une* Primetime Newscast, on the occasion of the inauguration of the ULB Neurosciences Institute.
- March 28<sup>e</sup>, 2013: Interview for *TéléBruxelles Television*, on the occasion of the inauguration of the ULB Neurosciences Institute.
- February 23<sup>e</sup>, 2013: Featured in the *New York Times*, on priming and replicability. [Link](#)
- February 21<sup>e</sup>, 2013: Televised recreation of experiments on the influence of ambient color for “*Tout s’explique*”, RTL-TVI television.
- February 13<sup>e</sup>, 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 30<sup>e</sup>, 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 13<sup>e</sup>), *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?”.
- 29<sup>e</sup> 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.
- 25<sup>e</sup> April 2010: Portrait and extended interview for the Sunday supplement of the daily *Publica* (Portugal).
- 20<sup>e</sup> April 2010: Participation in a televised debate around the 175<sup>e</sup> Anniversary of the Université Libre de Bruxelles, *Quai des Belges*, ARTE Belgique television.
- 15<sup>e</sup> April 2010: Featured in article titled “Transformez votre cerveau” in the general public weekly *Femmes d’Aujourd’hui*, 15, pp. 32-35.
- 9<sup>e</sup> April 2010: Interview for prime time news on SIC television (Portugal) on intuition and decision-making.
- 8<sup>e</sup> 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.
- 16<sup>e</sup> 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.
- 15<sup>e</sup> 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).
- 21<sup>e</sup> 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).
- 28<sup>e</sup> September, 2008: Series of three radio interviews on “Cognitive Science” for “*Semence de curieux*” on *La Première Radio* (with Jacques Olivier).
- 20<sup>e</sup> 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).
- 21<sup>st</sup> November 2007: Featured on “Tout s’explique”, a prime-time science-based show on RTL-TVI.
- 17<sup>th</sup> August 2007: Interview for “Au Quotidien” (La Une Television), on Memorizing Passwords.
- 04<sup>th</sup> August 2007: Interview for Radio France, on Artificial Intelligence.
- 14<sup>th</sup> May 2007: Interview for “La Première” Radio, on chat bot technology.
- 27<sup>th</sup> April 2007: Participation in a debate dedicated to Neuromarketing, on the “La fibre du Libre” broadcast (Radio Campus).
- 18<sup>th</sup> March 2007: Participation as expert in the RTL-TVI live television science-based gameshow “Le grand Test National de QI”
- 12<sup>th</sup> 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 2<sup>nd</sup> 2006: Interview (with Thierry Melchior) on the “La fibre du Libre” broadcast (Radio Campus), on “Hypnosis”.
- 21<sup>st</sup> April 2006: Interview (with Jacques Van Helden) on the “La fibre du Libre” broadcast (Radio Campus), on “Free will”.
- 7<sup>th</sup> March 2006: Interview (with Jean-Noël Missa & Serge Schiffman) on the “Tout Autre Chose” broadcast, La Une Radio, on “Neurosciences”.
- 24<sup>th</sup> January 2006: Featured on “Matière Grise”, La Une Television, on “Neuromarketing”.
- 7<sup>th</sup> November 2005: Interview on Radio Campus
- 1<sup>st</sup> April 2005: Interview on Radio Campus
- 30<sup>th</sup> 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.