



## Cadell Last

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### Profile

General thinker interested in synthesizing ideas from an interdisciplinary perspective in order to better understand the meaning of human existence and evolution.

### Academic Experience

#### **VRIJE UNIVERSITEIT BRUSSEL; BRUSSEL, BE. – 2014-PRESENT**

Ph.D. candidate and researcher at the Evolution, Cognition, and COmplexity (ECCO) group at Global Brain Institute (GBI) focused on higher orders of human social dynamics related to observation, information, energy, and meta-systems.

#### **UNIVERSITY OF TORONTO; TORONTO, ON. – 2011-13**

Graduated from the University of Toronto (M.Sc.) focused on evolutionary anthropology. Specialized in understanding divergence throughout primate-human evolution.

#### **MCMASTER UNIVERSITY; HAMILTON, ON. – 2007-11**

Graduated with combined B.A. (Hon.) degree in biological anthropology and history. Specialized in primate social ecology, biocultural evolution, colonial-empire formation.

#### **MOHAWK COLLEGE; HAMILTON, ON. – 2005-07**

Graduated with a General Arts and Science diploma focused on a wide-ranging introduction to social sciences, natural sciences, and the humanities.

### Academic Publications

Last, C. 2018. Cosmic Evolutionary Philosophy and a Dialectical Approach to Technological Singularity. *Information*, 9(4):78. DOI: 10.3390/info9040078.

Last, C. 2017. Big Historical Foundations for Deep Future Speculations: Cosmic Evolution, Atechnogenesis, and Technocultural Civilization. *Foundations of Science*, 22(1): 39-124. DOI: 10.1007/s10699-015-9434-y

Last, C. 2017. Global Commons in the Global Brain. *Technological Forecasting and Social Change*, 114: 48-64. DOI: 10.1016/j.techfore.2016.06.013

Last, C. 2015. Information-energy metasystem model. *Kybernetes*, 44(8/9), pp. 1298-1309. DOI: 10.1108/K-11-2014-0231

Last, C. 2015. Human Metasystem Transition (HMST) Theory. *Journal of Evolution & Technology*, 25(1): 1-16.

Last, C. 2014. Human Evolution, Life History Theory, and the End of Biological Reproduction. *Current Aging Science*, 7(1): 1-8. DOI: 10.2174/1874609807666140521101610

Last, C. 2014. Global Brain and the Future of Human Society. *World Future Review*, 6(2): 143-150. DOI: 10.1177/194675

Last, C. & Muh, B. 2013. Effects of Human Presence on Chimpanzee Nest Location in the Lebialem-Mone Forest Landscape, Southwest Region, Cameroon. *Folia Primatologica*, 84: 51-63.

Last, C. 2013. The 10,000 Year Explosion: How Civilization Accelerated Human Evolution (2009) by Gregory Cochran and Henry Harpending. *vis-a-vis: Explorations of Anthropology*, 12(1): 120-3.

## Grants and Awards

### **FORMWELTEN-INSTITUTE – 2018**

Awarded to fund accommodations to participate in systemic research workshop (€500)

### **CENTRE FOR RESEARCH AND INTERDISCIPLINARY (CRI) – 2017**

Awarded to fund travel and accommodations to present and participate in major system transition workshop (€750)

### **GLOBAL BRAIN INSTITUTE (GBI) / EVOLUTION, COGNITION, & COMPLEXITY (ECCO) INTERDISCIPLINARY PHD SCHOLARSHIP – 2014-18**

Awarded to fund participation with research group and completion of interdisciplinary Ph.D thesis related to complex systems science (€24,000 per. year)

### **GLOBAL BRAIN INSTITUTE (GBI) GRANT – 2014**

Awarded to fund conference travel and accommodations related to cybernetics and future studies (€1,500)

**EVOLUTION, COGNITION, AND COMPLEXITY (ECCO) GRANT – 2013**

Awarded to fund travel and accommodations while presenting at the Vrije Universiteit Brussel (€1,000)

**ONTARIO GRADUATE SCHOLARSHIP (OGS) – 2012-13**

Awarded to fund a second year of M.Sc. research at the University of Toronto (\$15,000)

**UNIVERSITY OF TORONTO RESEARCH ASSISTANTSHIP – 2012**

Awarded to fund proposed ring-tailed lemur (*Lemur catta*) nocturnal behavioural research on St. Catherines Island (SCI) (\$1,500)

**UNIVERSITY OF TORONTO FELLOWSHIP GRANT – 2012**

Awarded for conference participation and travel at CAPA 2011 and AAPA 2012 (\$880)

**WILLIAM S. POLLITZER STUDENT TRAVEL AWARD – 2012**

Awarded for essay prize on topic of identifying an important missing article in biological anthropology (\$500)

**SCHOOL OF GRADUATE STUDIES CONFERENCE GRANT – 2011**

Awarded for podium presentation at CAPA 2011 in Montreal (\$150)

**UNIVERSITY OF TORONTO GRADUATE FUNDING – 2011-12**

Awarded for acceptance into the M.A. anthropology program (\$15,000 plus tuition)

**MCMASTER UNIVERSITY UNDERGRADUATE ESSAY PRIZE – 2011**

Awarded as essay prize for undergraduate history thesis (\$50)

**UNDERGRADUATE STUDENT RESEARCH AWARD (USRA) – 2011**

Awarded to fund proposed primate research project in Cameroon, Africa (\$6,000)

**EXPERIENTIAL EDUCATION STUDENT PROJECT GRANT – 2010**

Awarded for poster presentation at CAPA 2010 in Saskatoon (\$900)

**CAPA 2010 STUDENT TRAVEL BURSARY – 2010**

Awarded for poster presentation at CAPA 2010 in Saskatoon (\$100)

**THE LORNA AND DAVID SOMERS AWARD – 2010**

Awarded for service to the McMaster community and academic leaderships skills

**EXPERIENTIAL EDUCATION STUDENT PROJECT GRANT – 2010**

Awarded for primate volunteer field survey in Cameroon (\$1,500)

**M.U.M.A. TRAVEL BURSARY – 2010**

Awarded for primate volunteer field survey in Cameroon (\$500)

## **Presentations and Posters**

**LARNACA CONFERENCE - INTEGRATION OF SYSTEM THINKERS (FORMWELTEN-INSTITUTE) – 2018**

Presentation: History of Meta-Reflective Group Dynamics in Thinking

**THE SCHOOL OF ADVANCED THINKING WORKSHOP (CENTER FOR RESEARCH AND INTERDISCIPLINARY (CRI)) – 2018**

Presentation: Towards the Foundations for a School of Advanced Thinking

**EVOLUTION, COGNITION, COMPLEXITY (ECCO) LECTURE SERIES (VRIJE UNIVERSITEIT BRUSSEL (VUB)) – 2017**

Presentation: Technological Singularity in the Big Historical Worldview

**BIG HISTORY AND GLOBAL EVOLUTION (LOMONOSOV MOSCOW STATE UNIVERSITY) – 2017**

Presentation: Technological Singularity in the Big Historical Worldview

**SHAPING OUR MAJOR TRANSITION (CENTRE FOR RESEARCH AND INTERDISCIPLINARY (CRI)) – 2017**

Presentation: Metasystem Transitions: Thinking an Individuated Commons

**EVOLUTION, COGNITION, AND COMPLEXITY (ECCO) LECTURE SERIES (VRIJE UNIVERSITEIT BRUSSEL (VUB)) – 2017**

Presentation: Consequences of the Symbolic-Imaginary for Big History

**INTERNATIONAL BIG HISTORY ASSOCIATION (UNIVERSITY OF AMSTERDAM (UA)) – 2016**

Presentation: Big History and the Deep Future

**OFFER NETWORK WORKSHOP (VRIJE UNIVERSITEIT BRUSSEL (VUB)) – 2015**

Presentation: Exploring the Global Commons

**THE INFORMATION SOCIETY AT A CROSSROADS (VIENNA UNIVERSITY (VU)) – 2015**

Presentation: Self-Actualization in the Commons

**EVOLUTION, COGNITION, AND COMPLEXITY (ECCO) LECTURE SERIES (VRIJE UNIVERSITEIT BRUSSEL (VUB)) – 2014**

Presentation: Information-Energy Metasystem Model

**REJUVENATION BIOTECHNOLOGY CONFERENCE (SENS FOUNDATION) – 2014**

Poster: Life History Theory and the End of Biological Reproduction

**INTERNATIONAL BIG HISTORY ASSOCIATION (DOMINICAN UNIVERSITY OF CALIFORNIA) – 2014**

Presentation: The Future of Big History

**AMERICAN SOCIETY OF CYBERNETICS (GEORGE WASHINGTON UNIVERSITY) – 2014**

Presentation: Information-Energy Metasystem Model

**WORLD FUTURE SOCIETY (WFS) – 2014**

Poster: Global Brain and the Future of Human Society

**CYPRUS SYMPOSIUM 'PATHWAYS TO INDEFINITE LIFESPANS' (UNIVERSITY OF NICOSIA (UN)) – 2014**

Presentation: Life History Theory and the End of Biological Reproduction

**EVOLUTION, COGNITION, AND COMPLEXITY (ECCO) LECTURE SERIES (VRIJE UNIVERSITEIT BRUSSEL (VUB)) – 2013**

Presentation: Pathway to the Global Brain: A Theory of Human Metasystem Transitions

**ROYAL ONTARIO MUSEUM (ROM) – 2012**

Presented: Conserving our Closest Relatives and Rural Development in Africa

**MEDUSA LECTURE SERIES (UNIVERSITY OF TORONTO (UOT)) – 2012**

Presented: Chimpanzee Group Nest Size in Equatorial West Africa and Group Nest Size Variability in the Lebialem-Mone Forest Landscape

**CAPA 2011 CONFERENCE (UNIVERSITE DE MONTREAL (UM)) – 2011**

Presented: Effects of Human Predation on Chimpanzee Nest Construction in South-West Cameroon

**MEDUSA LECTURE SERIES (UNIVERSITY OF TORONTO (UOT)) – 2011**

Presented: Effects of Human Predation on Chimpanzee Nest Construction in South-West Cameroon

**USRA RECEPTION 2011 (MCMASTER UNIVERSITY) – 2011**

Presented: Introduction to USRA research in South-West Cameroon

**CAPA 2010 CONFERENCE (UNIVERSITY OF SASKATOON) – 2010**

Poster: Chimpanzee Ecology and the Bushmeat Trade in South-West Cameroon

**UNDERGRADUATE RESEARCH SYMPOSIUM (MCMASTER UNIVERSITY) – 2010**

Presented: Critique of the Upper Palaeolithic Language Hypothesis

**UNDERGRADUATE HISTORY CONFERENCE (YORK UNIVERSITY) – 2010**

Presented: German-Jewish reaction to the Third Reich 1933-38

## Primary References

**FRANCIS HEYLIGHEN, PH.D. – ASSOCIATE PROF. OF PHILOSOPHY/INTERDISCIPLINARY STUDIES (VRIJE UNIVERSITEIT BRUSSEL)**

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**JOYCE PARGA, PH.D. – ASSOCIATE PROF. OF ANTHROPOLOGY (CAL STATE UNIVERSITY)**

[jparga2@calstatela.edu](mailto:jparga2@calstatela.edu) | Personal relation: M.Sc. Supervisor

**TRACY PROWSE, PH.D. – ASSOCIATE PROF. OF ANTHROPOLOGY (MCMASTER UNIVERSITY)**

905-525-9140 | [prowset@mcmaster.ca](mailto:prowset@mcmaster.ca) | Personal relation: Undergraduate supervisor

## Secondary References

**DAVID O'BRIEN, PH.D. – ASSOCIATE PROF. OF PHILOSOPHY (MOHAWK COLLEGE)**

[david.obrien@mohawkcollege.ca](mailto:david.obrien@mohawkcollege.ca) | Personal relation: college professor

**CLEMENT VIDAL, PH.D. – RESEARCHER IN PHILOSOPHY, COSMOLOGY, COMPLEXITY (VRIJE UNIVERSITEIT BRUSSEL)**

[contact@clemvidal.com](mailto:contact@clemvidal.com) | Personal relation: colleague at ECCO/VUB

**FRANCOIS TADDEI, PH.D. – DIRECTOR OF INTERDISCIPLINARY STUDIES (CENTRE FOR RESEARCH AND INTERDISCIPLINARY STUDIES)**

01 76 53 11 04 | [francois.taddei@inserm.fr](mailto:francois.taddei@inserm.fr) | Personal relation: colleague at CRI

**JEROME GLENN, PH.D. – DIRECTOR OF MILLENNIUM PROJECT (THINK TANK)**

[jglenn@igc.org](mailto:jglenn@igc.org) | Personal relation: mentor with Millennium Project

**MARIOS KYRIAZIS, PH.D. – DIRECTOR OF ELPIS FOUNDATION FOR INDEFINITE LIFESPANS**

[drmarios@live.it](mailto:drmarios@live.it) | Personal relation: collaborator at ECCO/VUB

**MARTA LENARTOWICZ, PH.D. – RESEARCHER IN SOCIAL SYSTEMS THEORY**

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