

# LINUS T. HUANG

## Curriculum Vitae

Division of Humanities  
Hong Kong University of Science and Technology  
Clear Water Bay, Hong Kong

LinusHuang@ust.hk  
Philpeople.org/profiles/Linus-Huang  
+1 (646) 685 4687

## EDUCATION

- Ph.D. Unit for the History and Philosophy of Science, University of Sydney, 2017
- M.A. Department of Philosophy, University of California, Riverside, 2008
- M.S. Cognitive Neuroscience Program, National Yang Ming University, Taiwan, 2006
- B.S. School of Medicine, National Yang Ming University, Taiwan, 2004

## PROFESSIONAL APPOINTMENT

- 2023-present Research Assistant Professor, Division of Humanities & Centre for AI Research, Hong Kong University of Science and Technology
- 2020-2023 Postdoctoral Fellow, Society of Fellows in the Humanities, University of Hong Kong
- 2018-2020 Postdoctoral Fellow, Department of Philosophy, University of California, San Diego
- 2018-2018 Visiting Research Fellow, School of Philosophy, Australian National University
- 2017-2018 Postdoctoral Scholar, Philosophy Program, Institute of European and American Studies, Academia Sinica, Taiwan
- 2016-2016 Australian Endeavour Scholar, School of Philosophy, Psychology and Language Sciences, University of Edinburgh
- 2015-2016 Australian Endeavour Scholar, Department of Philosophy and Centre for Theoretical Neuroscience, University of Waterloo

## RESEARCH SPECIALTIES

- AOS: Philosophy of Artificial Intelligence, Philosophy of Cognitive Science, Philosophy of Mind
- AOC: Philosophy of Science, Chinese Philosophy, Moral Psychology, Philosophy of Biology

## AWARDS AND HONORS

- 2015 Finalist, Postgraduate Presentation Prize, Australasian Association of Philosophy Annual Conference
- 2012 Postgraduate Research Prize for Outstanding Academic Achievement, University of Sydney

## GRANTS AND FELLOWSHIPS

- 2023 General Research Fund, University Grant Commission, Hong Kong (202,000 HKD)
- 2021 Short-Term Research Fellowship, Virtual Clinic on Increasing Fairness in Targeted Advertising, Alexander von Humboldt Institute for Internet and Society
- 2018 UCSD-Taiwan Postdoctoral Fellowship, Academia Sinica
- 2018 Short-Term Research Collaboration Fellowships, Academia Sinica
- 2015 Australian Endeavour Award, Department of Education, Australia (69,000 AUD)
- 2014 Royston George Booker and Herbert Johnson Travel Grant, University of Sydney
- 2014 University of Sydney Postgraduate Award, University of Sydney
- 2014 Postgraduate Research Support Scheme, University of Sydney
- 2013 Postgraduate Research Support Scheme, University of Sydney
- 2012 Postgraduate Research Support Scheme, University of Sydney
- 2012 Summer Seminar Fellowship, Big Questions in Free Will Project, Florida State University
- 2012 Summer School Fellowship, Tübingen International Summer School: How do we make decisions? Perspectives from philosophy and science, University of Tübingen.
- 2011 University of Sydney International Scholarship, 2011-2014, University of Sydney
- 2007 Taiwan Merit Scholarship, 2007-2009, National Science Council, Taiwan (70,000 USD)
- 2006 Dean's Distinguished Fellowship Award, University of California, Riverside

## PUBLICATIONS

### Books

- 2022 Bechtel, W., & Huang, L. T. *Philosophy of Neuroscience*. Cambridge: Cambridge University Press.

### Refereed Journal Articles

- 2022 Huang, L. T., Chen, H.-Y., Lin, Y.-T., Huang, T.-R., Hung, T.-W. Ameliorating Algorithmic Bias, or Why Explainable AI Needs Feminist Philosophy. *Feminist Philosophy Quarterly*.
- 2021 Chen, H.-Y., Yu, L.-A., & Huang, L. T.\* To Mask or Not to Mask: Epistemic Injustice in the

- COVID-19 Pandemics. *Techné: Research in Philosophy and Technology*. (\* corresponding author)
- 2021 Huang, L. T. More Dynamical and More Symbiotic: Cortico-Striatal Models of Resolve, Suppression, and Routine Habit. *Behavioral and Brain Sciences*.
- 2021 Huang, L. T., Bich, L., & Bechtel, W. Model Organisms for Studying Decision-Making: A Phylogenetically Expanded Perspective. *Philosophy of Science*.
- 2021 Huang, L. T. Can massive modularity explain human intelligence? Information control problem and implications for cognitive architecture. *Synthese*.
- 2020 Lin, Y.-T., Hung, T.-W., & Huang, L. T.\* Engineering Equity: How AI Can Help Reduce the Harm of Implicit Bias. *Philosophy & Technology*. (\* corresponding author)
- 2020 Carruthers, G., Carls-Diamante, S., Huang L. T., Rosen, M., & Schier, E. How to operationalise consciousness. *Australian Journal of Psychology*, 71(4), 390-410.
- 2018 Schwitzgebel, E., Huang, L. T., Higgins, A., & Gonzalez-Cabrera, I. The insularity of Anglophone philosophy. *Philosophical Papers*, 47(1), 21-48.
- 2012 Schwitzgebel, E., Rust, J., Huang, L. T., Moore, A. T., & Coates, J. Ethicists' courtesy at philosophy conferences. *Philosophical Psychology*, 25(3), 331–340.

#### Refereed Conference Proceedings

- 2020 Huang, L. T., & Bechtel, W. A Phylogenetic Perspective on Distributed Decision-Making Mechanisms. In *Proceedings of the 42th Annual Conference of the Cognitive Science Society*. Austin, TX: Cognitive Science Society.
- 2020 Bechtel, W., & Huang, L. T. Decentering Cognition. In *Proceedings of the 42th Annual Conference of the Cognitive Science Society*. Austin, TX: Cognitive Science Society.
- 2015 Huang, L. T. Reconceptualizing the computational problem of response selection. In *Proceedings of the 10th Conference of the Australasian Society of Cognitive Science*. Melbourne: Australasian Society of Cognitive Science.
- 2014 Huang, L. T. The nativist input problem. In *Proceedings of the 36th Annual Conference of the Cognitive Science Society*. Austin, TX: Cognitive Science Society.

#### Web-Based Writing

- 2021 Eren, E., Sekwenz, M-T., Huang, L. T., & Rzepka, S. Improving Fairness in Ad Display to Users [Blog Post]. In Birner, N., Hod, S., Kettemann, M. C., Pirang, A., & Stock, F. (Eds.), *Increasing Fairness in Targeted Advertising* [The Ethics of Digitalisation Clinics Report, 1]. Alexander von Humboldt Institute for Internet and Society. <https://graphite.page/fair-targeted-ads/>

#### Work In Progress

- 2023 The Dynamics of Personal Autonomy: A Comprehensive Framework for Evaluating Human-Carebot Interaction (under review by *Philosophical Studies*).
- 2023 Cognitive Architecture: A Control and Decision-Making Perspective.

## PRESENTATIONS

### Refereed Conference Oral Presentations

- 2021 Model Organisms for Studying Decision-Making: A Phylogenetically Expanded Perspective, Biennial Meeting of the Philosophy of Science Association, Baltimore, MD, November 11-14.
- 2021 The Promise and Perils of Explainable AI: Lessons from Feminism, Workshop on Feminism, Social Justice and AI, Waterloo, ON, July 26-28.
- 2019 Against the “Pyramid Scheme” of Executive Function: Empirical and Conceptual Challenges, Society for Philosophy and Psychology Annual Meeting, La Jolla, CA, July 10-13.
- 2018 Neurodemocracy: Self-Organization of the Embodied Mind, Australasian Society for Philosophy and Psychology 2018 meeting, Sydney, NSW, December 5-7
- 2018 Neurodemocracy: Self-Organization of the Embodied Mind, the 26th Biennial Meeting of the Philosophy of Science Association, Seattle, WA, November 1-4.
- 2014 Reconceptualizing the Computational Problem of Response Selection. Conference of the Australasian Society of Cognitive Science, Melbourne, VIC, December 8-10.
- 2014 The Nativist Input Problem. Annual Conference of the Cognitive Science Society, Québec, QC, July 23-26.
- 2013 The Nativist Input Problem. Society for Philosophy and Psychology Annual Meeting, Providence, RI, June 12-15.
- 2008 Moral Psychology and Moral Development in Xunzi. American Philosophical Association Central Division Meeting, Chicago, IL, April 16-19.

### Refereed Conference Poster Presentations

- 2014 The Problem of Hierarchical-Dynamic Routing. Society for Philosophy and Psychology Annual Meeting, Vancouver, BC, June 18-21.
- 2008 Lack of Responsibility? Reasons-Responsiveness Theory and the Situationist Challenge. Society for Philosophy and Psychology Annual Meeting, Philadelphia, PA, June 25-29.
- 2008 A Defense of Noë’s Vehicle Externalism. Annual meeting of the Association for the Scientific Study of Consciousness, Taipei, June 19-22.
- 2006 The Significance of Emotion. Toward a Science of Consciousness, Tucson, AZ, April 4-8.

### Conference Oral Presentations

- 2015 The Nativist Input Problem. Australasian Association of Philosophy Annual Conference, Sydney, NSW, July 5-9.

### Invited Commentary

- 2023 Commentary on Live Like Nobody Is Watching by Anita Ho. Medical Ethics and Humanities Unit, School of Clinical Medicine, University of Hong Kong, May 23.

- 2019      Commentary on the Mechanism of Prejudice: A Predictive Coding Perspective by Tzu-Wei Hung. *Meaning and Reality in Social Context*, Academia Sinica, Taiwan, January 15.
- 2010      Reply to Control: Conscious and Otherwise by Christopher Suhler and Patricia Churchland. *On the Human: a Project of the National Humanities Center*, USA, May 24.

#### Invited Talks

- 2021      Why Explainable AI needs Feminist Philosophy, Institute of Information Management, National Yang Ming Chiao Tung University, October 7.
- 2021      Why Explainable AI needs Feminist Philosophy, Hong Kong Institute for the Humanities and Social Sciences, University of Hong Kong, September 7.
- 2018      Neurodemocracy. Department of Philosophy, National Chung Cheng University, June 4.
- 2016      Neurodemocracy. Department of Psychology, University of Sheffield, Sheffield, October 4.
- 2016      Neurodemocracy. Work-In-Progress Seminar, University of Edinburgh, Edinburgh, September 30.
- 2015      Reviving the Society of Mind: Support from Recent Neuroscientific Models. Macquarie Naturalistic Philosophy Colloquium, Macquarie University, Sydney, NSW, April 30.
- 2014      Neurodemocracy. Computational Neuroscience Research Group, University of Waterloo, Waterloo, ON, July 4.
- 2014      Raising the Issues of Minorities and Philosophy in Australasia. Australasian Postgraduate Philosophy Conference, Sydney, NSW, April 22-24.
- 2013      The Nativist Input Problem. Philosophy Society Seminar, Australian National University, Canberra, ACT, May 21.

#### Campus Talks

- 2015      Linguistic Injustice. Minorities and Philosophy Colloquium, University of Sydney, Sydney NSW, March 17.
- 2014      Reconceptualizing Decision-Making. Behavioral Neuroscience Laboratory, University of Sydney, Sydney, NSW, December 15.
- 2014      Towards an Embodied Cognitive Architecture, Sydney-ANU Philosophy of Biology Workshop, Sydney, NSW, May 26-28.

## TEACHING EXPERIENCE

#### Courses Taught as a Sole Instructor

- Introduction to Ethics of AI and Data Science (Hong Kong University of Science and Technology, Fall 2023)
- Philosophy and Cognitive Science (University of Hong Kong, Fall 2022)
- Philosophy of Artificial Intelligence (University of Hong Kong, Fall 2021)

### Courses Taught as a Teaching Assistant

Introduction to Critical Thinking (University of California, Riverside, Fall 2009, Winter 2010)

Reason, Belief, and Truth (University of California, Riverside, Spring 2008)

Contemporary Moral Issues (University of California, Riverside, Winter 2008)

Evil (University of California, Riverside, Fall 2007)

### Teaching Certificate

Building AI Knowledge and Skills for Curriculum Development, City University of Hong Kong, 2023

Teaching Development Program, Faculty of Arts and Social Sciences, University of Sydney, 2014

## COURSES PREPARED TO TEACH

### Lower Level Courses

Logic

Critical Thinking

Introduction to Ethics of AI and Data Science

Philosophy and Human Nature

Introduction to Chinese Philosophy

### Upper Level Courses

Philosophy of Mind

Philosophy of Science

Philosophy of Cognitive Science

Philosophy of Neuroscience

Philosophy of Artificial Intelligence

Philosophy of Biology

Moral Psychology

### Special Topics Courses

Implicit Bias

## SERVICE

### Service to Department

Co-Chair, Meaning and Reality in Social Context Conference, Academia Sinica, January 2019  
Equity Officer and HPS Liaison, Philosophy Student Committee, University of Sydney 2014-5  
Organizer, Minorities and Philosophy Initiative University of Sydney Chapter, 2014-5

### Service to Profession

Steering Committee Member, ACM Fairness, Accountability, and Transparency (FAccT) Conference, 2023-  
Advisor, Academic Placement Data and Analysis, 2020-2024  
Peer Reviewer, Society for Philosophy and Psychology Annual Meeting, 2020  
Symposium Organizer, Biennial Meeting of the Philosophy of Science Association, 2018  
Graduate Mentor, Minorities and Philosophy Initiative, 2014-2015  
Peer Reviewer, *Philosophical Psychology*, 2014  
Peer Reviewer, *Journal of Chinese Philosophy*, 2010  
Peer Reviewer, *Philosophy of Science*, 2009

## LANGUAGES

Mandarin Chinese, native fluency in reading, writing, and speaking  
Classical Chinese, intermediate fluency in reading

## PROFESSIONAL MEMBERSHIPS

Association for Computing Machinery, 2023-Present  
Society of Philosophy and Psychology, 2008-Present  
Cognitive Science Society, 2013-Present  
American Association of Philosophy Teachers, 2015-Present  
Philosophy of Science Association, 2018-Present  
Australasian Society of Philosophy and Psychology, 2018-Present

## REFERENCES

William Bechtel  
UC Distinguished Professor  
Department of Philosophy

University of California  
San Diego, CA 92093, USA  
Phone: +1 (858) 822-4461  
Email: wbechtel@ucsd.edu

Eric Schwitzgebel  
Professor, Philosophy  
Department of Philosophy  
University of California  
Riverside, CA 92521, USA  
Phone: +1 (951) 827-4288  
Email: eric.schwitzgebel@ucr.edu

Dominic Murphy  
Professor, History and Philosophy of Science  
Unit for the History and Philosophy of Science  
University of Sydney  
Sydney, NSW 2006, Australia  
Phone: +61 2 9351 3762  
Email: dominic.murphy@sydney.edu.au

Robert Rupert  
Professor, Philosophy  
Department of Philosophy  
University of Colorado  
Boulder, CO 80309, USA  
Phone: +1 (303) 735-0988  
Email: robert.rupert@colorado.edu

Bryce Huebner  
Associate Professor, Philosophy  
Department of Philosophy  
Georgetown University  
Washington DC, 20057, USA  
Phone: +1 (202) 687-7487  
Email: bryce.huebner@georgetown.edu

Peter J. Graham (Teaching Reference)  
Associate Dean for Student Academic Affairs  
College of Humanities, Arts, and Social Sciences  
Professor, Philosophy  
Department of Philosophy  
University of California  
Riverside, CA 92521, USA  
Phone: +1 (323) 252-7063  
Email: peter.graham@ucr.edu



## Graduate Courses Taken

Philosophy	
Metaphysics and Epistemology	
Philosophy of Science	Philosophy of Psychology
Philosophy of Cognitive Science	Philosophy of Mind
Philosophy of Neuroscience	Consciousness
Theory of Mind	Perception
Philosophy of Language	Epistemology
Naming and Necessity	Logic
Philosophy of Biology*	Philosophy of Psychiatry*
Value Theory	
Free Will and Responsibility	Habermas
Caring and Practical Reason	Velleman
Multiculturalism	Moral Psychology*
Empirical Approach to Moral Psychology	
History of Philosophy	
Moral Philosophy of Hume and Kant	Aristotle's Ethics
20th-Century Analytic Philosophy	Asian Philosophy* (Offered by Comp. Lit. Dept.)
Asian Philosophy (Offered by Philosophy Dept.)	Classical Chinese* (Language Course)
Freud*	Existentialism*
Cognitive and Computational Neuroscience	
Cognitive Neuroscience	Theory of Computability
Intentionality and Perception	Consciousness and Perception
Computational Neuroscience*	Social Psychology*
* Audit	