

# COLIN KLEIN

# CURRICULUM VITAE

School of Philosophy  
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## EMPLOYMENT & AFFILIATIONS

### Australian National University

- Professor, School of Philosophy (2020-)
- Associate Professor, School of Philosophy (2018-2020)
- ARC Future Fellow (2014-2018)
- Research Fellow, School of Philosophy (2013)

### Macquarie University

- Senior Lecturer, Department of Philosophy (2015–2018)
- Lecturer, Department of Philosophy (2014–2015)
- Associate Investigator, ARC Centre of Excellence in Cognition and its Disorders (CCD) (2014–2018)

### University of Illinois at Chicago

- Associate Professor, Department of Philosophy (2011–2013)
- Assistant Professor, Department of Philosophy (2006–2011)
- Member, Laboratory of Integrative Neuroscience (2006–2013)

## EDUCATION

Ph.D in Philosophy, Princeton University (January 2007)

Thesis: *Idealizing the Mind*

Primary advisor: Karen Bennett.

B.A. *summa cum laude* in Philosophy & Scientific and Philosophical Studies of Mind, Franklin and Marshall College (2001)

## PUBLICATIONS

### BOOKS

- *What the Body Commands: The Imperative Theory of Pain.* (2015) Cambridge, MIT Press.

### EDITED COLLECTIONS

- *Mind Design III: Philosophy, Psychology, and Artificial Intelligence.* John Haugeland, Carl Craver, and Colin Klein (under contract, est. 2023) Cambridge: MIT Press.
- *Social Virtue Epistemology.* ed Mark Alfano, Colin Klein, and Jeroen De Ridder. (2022). New York: Routledge.

### ARTICLES, CHAPTERS, AND PROCEEDINGS

- “Exploratory analysis and the expected value of experimentation” forthcoming in *Philosophy of Science*
- “Transduction, calibration, and the penetrability of pain” Forthcoming in *Ergo*.
- “The affiliative use of emoji and hashtags in the Black Lives Matter movement in Twitter.” Mark Alfano, Ritsaart Reimann, Ignacio Ojea Quintana, Marc Cheong, and Colin Klein. Forthcoming in *Social Science Computer Review*.
- “Consciousness in Artificial Intelligence: Insights from the Science of Consciousness” (2023) Patrick Butlin, Robert Long, et al. <https://arxiv.org/abs/2308.08708>

- “Computing in the nick of time” (2023) Brendan Ritchie and Colin Klein. *Ratio* 36(3): 169-179.
- “Transitions in cognitive evolution” (2023) Andrew Baron, Marta Halina, and Colin Klein. *Proceedings of the Royal Society B* 290: 20230671
- “The `wisdom_of_crowds`: an efficient, philosophically-validated, social epistemological network profiling toolkit” (2023) Colin Klein, Marc Cheong, Marinus Ferreira, Emily Sullivan, and Mark Alfano. In: Cherifi, H., Mantegna, R.N., Rocha, L.M., Cherifi, C., Miccichè, S. (eds) *Complex Networks and Their Applications XI*. (Studies in Computational Intelligence, vol 1077). 62–73.
- “A Tragic Coalition of the Rational and Irrational: A threat to collective responses to COVID-19” (2023) Marinus Ferreira, Marc Cheong, Colin Klein, and Mark Alfano. *Philosophical Psychology* 36(6): 1062–1079.
- “Explaining Neural Transitions through Resource Constraints” (2022) *Philosophy of Science* 89(5), 1196–1202.
- “Polarization and trust in the evolution of vaccine discourse on Twitter during COVID-19” (2022) Ignacio Ojea Quintana, Ritsaart Reimann, Marc Cheong, Mark Alfano, Colin Klein. *PLOS ONE* 17(12): 1–21. <https://doi.org/10.1371/journal.pone.0277292>
- “Attention and counter-framing in the Black Lives Matter movement on Twitter” (2022) Colin Klein, Ritsaart Reimann, Ignacio Ojea Quintana, Marc Cheong, Marinus Ferreira, and Mark Alfano. *Humanities and Social Sciences Communications*. 9:367
- “Mapping Topics in 100,000 Real-life Moral Dilemmas” (2022) Tuan Dung Nguyen, Georgiana Lyall, Alasdair Tran, Minjeong Shin, Nicholas Carroll, Colin Klein, and Lexing Xie. *Proceedings of the International AAAI Conference on Web and Social Media* 16(1), 699-710.
- “Introduction: A research program for social virtue epistemology.” (2022) Mark Alfano, Colin Klein, and Jeroen de Ridder. In *Social Virtue Epistemology*. ed Mark Alfano, Colin Klein, and Jeroen De Ridder. (2022). New York: Routledge.
- “Evolutionary Transition Markers and the Origins of Consciousness” (2022) Marta Halina, David Harrison, and Colin Klein. *Journal of Consciousness Studies* 29(3-4): 62-77.
- “The Coordination Dilemma For Epidemiological Modelers” (2021) Ignacio Ojea Quintana, Sarita Rosenstock, and Colin Klein. *Biology and Philosophy* 36(54): 1-17.
- “Technologically scaffolded atypical cognition: The case of YouTube’s recommender system” (2021) Mark Alfano, Amir Ebrahimi Fard, J Adam Carter, Peter Clutton, Colin Klein. *Synthese* 199: 835–858.
- “The Ethical Gravity Thesis: Marrian Levels and the Persistence of Bias in Automated Decision-making Systems” (2021) Atoosa Kasirzadeh and Colin Klein. in *AIES ’21: Proceedings of the 2021 AAAI/ACM Conference on AI, Ethics, and Society* pp 618–626
- “Do we represent peripersonal space?” (2021) in *The World at our Fingertips: A Multidisciplinary Exploration of Peripersonal Space* ed F. de Vignemont, H.Y. Wong, A. Serino, and A. Farné. Oxford: Oxford University Press. pp139–154
- “What is the job of the job description challenge? A case study from body representation” Colin Klein and Peter Clutton. (2021) in *Neural Mechanisms: New Challenges in Philosophy of Neuroscience* ed Fabrizio Calzavarini & Marco Viola. Dordrecht: Springer. pp 449–465.
- “A Humean challenge to predictive coding” (2021) in *The Philosophy and Science of Predictive Processing* ed Dina Mendonça, Manuel Curado, and Steven Gouveia. Bloomsbury Press. pp25–38.
- “Explanation in the Science of Consciousness: From the Neural Correlates of Consciousness (NCCs) to the Difference Makers of Consciousness (DMCs)” Colin Klein, Jakob Hohwy, and Tim Bayne. (2020) *Philosophy and the Mind Sciences* 1(II), 4. <https://doi.org/10.33735/phimisci.2020.II.60>

- “Polychrony and the process view of computation” (2020) *Philosophy of Science* 87(5): 1140–1149.
- “How Experimental Neuroscientists Can Fix the Hard Problem of Consciousness” (2020) Colin Klein and Andrew Barron *Neuroscience of Consciousness* 6(1): niaa009
- “Putting the ‘social’ back in social psychology” (2020) *Current Controversies in Philosophy of Cognitive Science*, Routledge, ed. Adam J. Lerner, Simon Cullen, Sarah-Jane Leslie. pp 174–187.
- “First-person interventions and the meta-problem of consciousness” (2020) Colin Klein and Andrew Barron *Journal of Consciousness Studies* 27(5-6): 82-90.
- “Pain and Spatial Inclusion: Evidence from Mandarin” (2020) Michelle Liu and Colin Klein. *Analysis* 80(2): 262–272
- “Pathways to conspiracy: the social and linguistic precursors of involvement in Reddit’s conspiracy theory forum” (2019) Colin Klein, Peter Clutton, and Adam Dunn. *PLOS ONE* 14(11) 1-23.
- “Trust in a Social and Digital World” (2019) Mark Alfano and Colin Klein. *Social Epistemology Review and Reply Collective* 8(10): 1-8. <https://wp.me/p1Bfg0-4tk>
- “Decoding the Brain: Neural Representation and the Limits of Multivariate Pattern Analysis in Cognitive Neuroscience” (2019) Brendan Ritchie, David Kaplan, and Colin Klein. *The British Journal for the Philosophy of Science* 70(2): 581–607.
- “Imperativism and Pain Intensity” Colin Klein and Manolo Martínez (2019) in *The Philosophy of Pain: Unpleasantness, Emotion, and Deviance*. ed. David Bain, Michael Brady, and Jennifer Corns. New York: Routledge, pp13–27.
- “Computation, Consciousness, and ‘Computation and Consciousness’” (2019) In *Routledge Handbook of the Computational Mind*, ed. Mark Sprevak and Matteo Colombo, 297–309.
- “Mechanisms, Resources, and Background Conditions” (2018) *Biology and Philosophy* 33(5): 36
- “Ghosts in Machine Learning for Cognitive Neuroscience: Moving from Data to Theory” (2018) Thomas A Carlson, Erin Goddard, David M Kaplan, Colin Klein, J. Brendan Ritchie. *Neuroimage* 180(A): 88–100
- “Interpreting the dimensions of neural feature representations revealed by dimensionality reduction” (2018) Erin Goddard, Colin Klein, Samuel G Solomon, Hinze Hogendoorn, and Thomas A Carlson. *Neuroimage* 180(A): 41–67.
- “What do predictive coders want?” (2018) *Synthese* 195(6): 2451-2557.
- “Topic Modeling Reveals Distinct Interests Within an Online Conspiracy Forum” (2018) Colin Klein, Peter Clutton, and Vince Polito. *Frontiers in Psychology* 9: 189.
- “Hypocrisy and Moral Authority” Jessica Isserow and Colin Klein. (2017) *Journal of Ethics and Social Philosophy* 12(2): 191-222.
- “Taxonomising Delusions: Content or Aetiology?” Peter Clutton, Stephen Gadsby, and Colin Klein. (2017) *Cognitive Neuropsychiatry* 22(6): 508-527.
- “Pain, care, and the Body: A response to de Vignemont” (2017) *Australasian Journal of Philosophy* 95(3): 588–593
- “Imperativism” (2017) in *The Routledge Handbook of Philosophy of Pain*, ed. Jennifer Corns. New York: Routledge: 51-59.
- “Brain regions as difference makers” (2017) *Philosophical Psychology* 30(1–2): 1–20.
- “What is a Cognitive Ontology, Anyway?” Anelli Janssen, Colin Klein, and Marc Slors. (2017) *Philosophical Explorations* 20(2) 123–128. “Cognitive ontologies in philosophy of mind and philosophy of psychiatry”
- “Consciousness, Intention, and Command Following in the Vegetative state” (2017) *The British Journal for the Philosophy of Science*. 68(1): 27-54.
- “Wang Chong’s epistemology of testimony” Esther Klein and Colin Klein (2016) *Asia Major Third Series*, 29(2): 115–147.

- “Insect consciousness: Commitments, conflicts and consequences” (2016) Colin Klein and Andrew Barron. *Animal Sentience* 1(9.21) <http://animalstudiesrepository.org/animsent/vol1/iss9/21/>
- “Insects have the capacity for subjective experience” (2016) Colin Klein and Andrew Barron. *Animal Sentience*. 1(9.1) <http://animalstudiesrepository.org/animsent/vol1/iss9/1/>
- “Pain signals are predominantly imperative” (2016) Manolo Martínez and Colin Klein. *Biology and Philosophy* 31:283–298.
- “What insects can tell us about the origins of consciousness” Andrew Barron and Colin Klein (2016) *Proceedings of the National Academy of Sciences* 113(18): 4900–4908.
- “Olympia and other O-Machines” (2015) *Philosophia* 43(4): 925–931.
- “Variability, convergence and dimensions of consciousness” (2015) Colin Klein and Jakob Hohwy. In *Behavioral Methods In Consciousness* ed. Morten Overgaard, Oxford: Oxford University Press: 249–264.
- “What Pain Asymbolia Really Shows” (2015) *Mind* 124(494): 493–516.
- “The Brain At Rest: What It Is doing and Why that Matters” (2014) *Philosophy of Science* 81(5) : 974–985.
- “Psychological Explanation, Ontological Commitment, and the Semantic view of Theories” (2014) in *New Waves in Philosophy of Mind*, ed. Mark Sprevak and Jesper Kallestrup. New York, Palgrave Macmillan: 208–225.
- “The Penumbral Theory of Masochistic Pleasure” (2014) *The Review of Philosophy and Psychology* 5(1):41–55
- “No Problem.” (2014) David Hilbert and Colin Klein. In *Consciousness Inside and Out*, ed Richard Brown. Oxford: Oxford University Press: 299–306.
- “Multiple Realizability and the Semantic View of Theories” (2013) *Philosophical Studies* 163(3): 683–695.
- “Imperatives, Phantom Pains, and Hallucination by Presupposition” (2012) *Philosophical Psychology* 25(6): 917–928.
- “Cognitive Ontologies and Region- versus Network-Oriented Analyses” (2012) *Philosophy of Science* 79(5): 952–960.
- “Two Paradigms for Implementation” (2012) *Journal of Cognitive Science* 13(2): 167–179.
- “The Dual Track theory of Moral Decision-Making: A Critique of the Neuroimaging Evidence” (2011) *Neuroethics* 4, pp143–162.
- “Neuroimaging senza localizzazione” *Sistemi Intelligenti* (2011). Trans. Massimo Marraffa a. XXIII, n. 1, Aprile 2011, pp113–132.
- “Response to Tumulty on Pain and Imperatives” (2010) *The Journal of Philosophy* CVII(10), pp 554–557.
- “Images are not the Evidence in Neuroimaging” (2010) *The British Journal for the Philosophy of Science*. 61, pp. 265–278
- “Confirmation, Refutation and The Evidence of fMRI.” (2010) Chris Mole and Colin Klein. In *Foundational Issues in Human Brain Mapping*, ed. Martin Bunzl and Stephen José Hanson. Cambridge, MIT press: 99–112.
- “Philosophical Issues in Neuroimaging.” (2010) *Philosophy Compass*. 5(2), pp. 186–198.
- “Reduction Without Reductionism: A Defence of Nagel on Connectability.” (2009) *Philosophical Quarterly*. 59(234), pp. 39–53.
- “Dispositional Implementation Solves the Superfluous Structure Problem.” (2008) *Synthese*. 165(1), pp. 141–153.
- “An Ideal Solution to Disputes about Multiply Realized Kinds.” (2008) *Philosophical Studies*. 140(2), pp. 161–177.
- “An Imperative Theory of Pain.” (2007) *The Journal of Philosophy* CIV(10), pp. 517–532.
- “Kicking the Kohler Habit.” (2007) *Philosophical Psychology* 20(5), pp. 609–619.

- “Events as Changes in the Layout of Affordances.” (2003) Anthony Chemero, Colin Klein and William Cordeiro. *Ecological Psychology*, 15(1), 19-28.

## LETTERS, COMMENTARIES, AND REVIEWS

- “The virtues you project and the vices you have: Commentary on Meyer and Alfano” Forthcoming in *Social Virtue Epistemology* ed Alfano, Ridder, Klein.
- “How should we study animal consciousness scientifically?” Jonathan Birch et al.
- Review of *The Complex Reality of Pain* by Jennifer Corns. (2022) *Mind* 131(523) 988–997.
- Review of *The Emotional Mind: A Control Theory of Affective States* by Tom Cochrane *Notre Dame Philosophical Reviews* (October 2020).
- “Holistic resource-rational analysis” (2020) Julia Haas and Colin Klein. Commentary on “Resource-rational analysis: understanding human cognition as the optimal use of limited computational resources” by Falk Lieder and Thomas L. Griffiths. *Behavioral and Brain Sciences* v43, e11.
- “Commentary on Bayne” (2019) Online symposium at Brains Blog on Axiomatizations of IIT <https://tinyurl.com/yycr2eop>
- Review of *Philosophy and Computing: Essays in Epistemology, Philosophy of Mind, Logic, and Ethics*, ed. Thomas Power. *Notre Dame Philosophical Reviews* (May 2018).
- ‘Precaution, proportionality and proper commitments.’ (2017) Commentary in *Animal Sentience* 16(9). <http://animalstudiesrepository.org/animalsent/vol2/iss16/9/>
- Review of *Tense Bees and Shell-Shocked Crabs: Are Animals Conscious?* by Michael Tye. *Notre Dame Philosophical Reviews* (April 2017).
- “Reply to S.A. Adamo, B. Key et al, and M. Schilling & H. Cruse: Crawling around the hard problem of consciousness.” Colin Klein and Andrew Barron (2016) *Proceedings of the National Academy of Sciences* 13(27), E3814-E3815
- Review of *Reliability in Cognitive Neuroscience: A Meta-Meta-Analysis* by William R. Uttal. (2015) *Philosophical Psychology* 28(4): 606-609.
- Review of *Engineering the Next Revolution in Neuroscience: The New Science of Experiment Planning* by Alcino J. Silva, Anthony Landreth, and John Bickle. (2014) *Philosophy of Science* 81(3): 486-489.
- Review of *Brain Imaging; What it Can (and Cannot) Tell us about Consciousness* by Robert G. Shulman. *Notre Dame Philosophical Reviews* (June 2013).
- Review of *Explaining the Brain* by Carl F. Craver (2012) *Mind* 121(481): 165-169.
- “Did the Chinese have a Change of Heart?” (2012) Esther Klein and Colin Klein. *Cognitive Science* 36(2), pp. 179-182.
- “Critical Notice: *Cognitive Systems and the Extended Mind* by Robert Rupert” (2010) *The Journal of Mind and Behavior* 31(3&4), pp. 253-264.
- “Redeployed Functions Versus Spreading Activation: A Potential Confound” (2010) Commentary on “Neural reuse: A fundamental organizational principle of the brain” by Michael L. Anderson. *Behavioral and Brain Sciences* 33, pp. 280-281.

## SPECIAL ISSUES EDITED

- Forthcoming special issue of *Social Epistemology* (with Mark Alfano) on “Trust in a Social and Digital world”
- 2017 special issue of *Philosophical Explorations* (with Marc Slors and Anelli Janssen). 20/2 on “Cognitive ontologies in philosophy of mind and philosophy of psychiatry”

## SOFTWARE AND TECHNICAL REPORTS

- `wisdom_of_crowds` available at <https://github.com/cvklein/wisdom-of-crowds>
- “Automated clustering of COVID-19 anti-vaccine discourse on Twitter” Ignacio Ojea Quintana, Marc Cheong, Mark Alfano, Ritsaart Reimann, and Colin Klein. <https://arxiv.org/abs/2203.01549>

## CONFERENCE AND INVITED TALKS

- Computation: Indeterminate, Invertible, Isomorphic. Foundations of Computation, ANU July 2023; AAP 2023, July 2023
- Sticky concepts in comparative philosophy: the case of Yin-Yang (with Esther Klein). UHM-ANU Workshop, Apr 2023
- Exploratory data analysis and the effective value of experimentation. Philosophy of Science Association, Nov 2022
- Transduction, Calibration, and the Cognitive Penetration of Pain. Online Keynote, Italian Association for Cognitive Science Sep 2021; Tübingen University (via Zoom) Jan 2022; Sydney University Mar 2022; Australian Catholic University Sep 2022
- How do we represent peripersonal space? Australian National University, Sep 2022
- Explaining Neural Transitions Through Resource Constraints. Philosophy of Science Association (via Zoom), Nov 2021; Australasian Society for Philosophy and Psychology, Feb 2022
- Is Pain Cognitively Penetrable? InvestMind18 Ruhr-University Bochum, November 2018; ANU Colloquium Series Apr 2021
- Computation is medium-independent, but computational explanation is not. Carleton University (via Zoom), Jan 2021
- Which Conspiracy Theories Should You Believe? Colin Klein and Peter Clutton. Lingnan University (via Zoom), May 2020
- Online Conspiracy Theories: A multi-method approach. Building Better Epistemic Networks, Melbourne, September 2019.
- Conspiracy Theories and Narratives of Awakening. Australasian society for Philosophy and Psychology, December 2018
- Polychronous neural assemblies and the process view of computation. Philosophy of Science Association, November 2018.
- Computation + Representational Structure = Cognition. “Fitting the Mind to the Brain: Deliberations on Cognitive Ontology” Washington University (remotely presented), October 2018
- An Interspecies Perspective on the Dimensions of Pain. “The Nature of Pain” Ruhr-University Bochum, September 2017; “Kinds of Minds” Cambridge University, June 2018
- What do we represent when we represent peripersonal space? Australian National University, May 2018; Institut Jean Nicod, June 2018
- From Station to Station: Notes towards a quantitative cognitive ontology. Neural Mechanisms Online, March 2018
- A Humean Challenge to Predictive Coding. “Predictive Engines” Conference, Macquarie University, November 2017
- Corpus Analysis of an Online Chronic Pain Forum. “Science of Self” Conference, Sydney, November 2017
- Online conspiracy theorizing and the psychology of trust: CCD-CAVE workshop on Troublesome Beliefs, August 2017; SASP-SPSSI Conference on The Morality of Conflict and Cooperation, April 2017.
- Cognitive Ontology: A field guide. Summer School in Neuroscience and Psychology, Duke University, May 2017
- Author Response, Author Meets Critics session on *What the Body Commands*: Eastern

- APA, Jan 2017.
- From Humans to Insects and Back Again: Methodological Reflections on the Study of Invertebrate Consciousness: Azrieli Program in Brain, Mind and Consciousness (CIFAR), Dec 2016
  - Delusions and conspiracy theories: cognitive neuroscience meets corpus analysis: Australasian Cognitive Neuroscience Society (invited Symposium), November 2016
  - Cognitive ontology: living with less than unification: Australian National University, Oct 2016. ‘Reshaping the mind’ Workshop, Macquarie University, Jun 2016; Sydney Uni, May 2016;
  - Suffering and the varieties of bodily care: ‘The Value of Suffering’ workshop, Macquarie University, Feb 2016
  - What do predictive coders want?: Wollongong workshop on Predictive Coding and Embodied Cognition, Nov 2015
  - What insects can tell us about the origins of consciousness (co-presented with Andrew Barron): SydPP Keynote speech, May 2016. (Also presented by Andrew Barron at ICN 2016 and OCNS 2015)
  - Coordinating Cognitive Ontologies: Lessons and Challenges for the Study of Cognition: Society for Philosophy and Psychology, Duke University, Jun 2015; Monash University, May 2015; Berlin Cognitive Ontology Workshop, Feb 2015
  - Olympia and other O-Machines: Pacific APA, April 2015
  - Mental Representation and Decoding Methods in Cognitive Neuroscience (with Brendan Ritchie): Australasian Society for Cognitive Science, December 2014, PinA Lab Group, Macquarie University, November 2014
  - Brain Regions as Difference-Makers: Philosophy of Science Association, November 2014; Wollongong University, October 2014; University of New South Wales, October 2014; Macquarie University, September 2014; University of Sydney, October 2013; Australian National University, October 2013; National Taiwan University, October 2013
  - Hypocrisy and Moral Authority (with Jess Isserow): ANU September 2014
  - Naturalism and Degrees of Pain (with Manolo Martínez): Pacific APA Invited Symposium, April 2014
  - What is your brain doing when you are not doing anything? : University of Adelaide, August 2013; Australasian Association for Philosophy, July 2013; University of Sydney HPS, June 2013
  - A Penumbra Theory of Masochistic Pleasure: ANU Philsoc, July 2013
  - Rest: What it is and Why It Matters: Philosophy of Science Association, November 2012
  - What Pain Asymbolia Really Shows: University of Glasgow, May 2012
  - Brain Imaging, the Vegetative State, and Cryptic Consciousness : Macquarie University, March 2013; Australian National University, February 2013
  - Neuroimaging Without Neural Localization: University of Illinois Urbana-Champaign META Group, March 2012; Notre Dame Institute for Advanced Studies, March 2012; University of Cincinnati, November 2011; Georgia State University, January 2011
  - Neuroimaging and Cognitive Ontologies: Co-option or Co-evolution? : ‘Imaging the Mind?’, Amsterdam, April 2011
  - Cognitive Ontology and Region- versus Network-Oriented Analyses: Philosophy of Science Association, November 2010
  - Pain and Painfulness: Franklin and Marshall College, October 2010
  - Philosophy, Rhetoric, & Wang Chong’s Inductive-Deductive Method (with Esther Klein): Midwest Conference on Chinese Thought, DePaul University, May 2010
  - Emotion, Reason, and the Functional Imaging of Moral Deliberation: UIC Humanities Fellow Lecture, December 2010; Johns Hopkins University, November 2009; University of Miami, November 2009

- Phantom Limbs and the Imperative Account of Pain: Northern Illinois University, April 2009; University College Dublin, March 2009
- The Modeler’s Dilemma: Boston University, January 2009
- Kicking the Kohler Habit (with Gabriel Love): ASSC 10th Annual Conference, Oxford University, June 2006
- An Imperative Theory of Pain: ASSC 9th Annual Conference, Cal Tech, June 2005

## OTHER SEMINARS AND COLLOQUIA

- Transitional thinking in Cognitive Evolution. ANU Evolvability Workshop, June 2023
- Attention and Counter-Framing in the Black Lives Matter movement on Twitter. ANU Philosophy of Journalism Workshop, April 2023. MQ Digital Trust Workshop, Nov 2022; Centre for Social Research Methods at ANU, May 2022
- Predictive coding and bandwidth for change. Emotion, Affect, and Predictive coding workshop, ANU, June 2022.
- Pain as consciousness of a bodily command. Asia Pacific Consciousness Seminar, March 2022
- The Ethical Gravity Thesis: Marrian Levels and the Persistence of Bias in Automated Decision-making Systems Atoosa Kasirzadeh and Colin Klein. AIES 2021 poster session, May 2021
- The Dynamics of Online Trust: Twitter Case Studies and Future Directions. ANU RSP Seminar (via Zoom) May 2021
- Online conspiracy theorising and the psychology of trust. CPAS Brownbag Sep 2020, Sydney University, April 2017.
- Technologically scaffolded atypical cognition: The case of YouTube’s recommender system. Social and Behavioural Dynamics of Attention, ANU Feb 2020
- Implicit Bias and Gender in Philosophy: Panel Discussant, AAP Conference, July 2019
- Topic Modeling and Online Conspiracy Theories. ANU CPS Workshop on Online Misinformation, July 2019
- Implicit Bias and the Ethics of Effect Size: ANU CMSPT seminar, September 2018
- Pains as commands: a sketch and some consequences: University of Queensland psychology department, May 2016.
- Processes and capacities in the study of cognitive control: Sydney University and Macquarie University Work-in-Progress Seminars, April 2015
- Mechanisms and Resources: CogSci Kioloa, June 2014
- Putting the ‘Social’ Back in Philosophy of Psychology: UIC Psychology Brownbag, March 2012
- Against Levels: Pacific APA, Society for the Metaphysics of Science, April 2011
- Comments on ‘Moral Theorizing on the Ground’: Pacific APA Commentary, April 2011
- Integration, Invariance, and Rupert’s Approach to Demarcation: Southern Society for Philosophy and Psychology, April 2010
- Abstraction and the Shape of Reduction: Central APA, Society for the Metaphysics of Science, February 2009

## ENGAGEMENT

- “Why do people believe Conspiracy Theories?” Library Association of NSW, May 2021. U3A Canberra, May 2021.
- “Conspiracy Theories: Which Ones should you believe?” Wollongong Philosophy Club, May 2021
- Beyond fake news: are we suffering from an information disorder? (Panelist) Australian Library and Information Association (Via Zoom) Feb 2021
- “How close is too close?” Frédérique de Vignemont and Colin Klein. *Aeon*, November



2020. <https://tinyurl.com/y34soyws>
- “Don’t (just) blame echo chambers. Conspiracy theorists actively seek out their online communities” Colin Klein, Adam Dunn, and Peter Clutton. *The Conversation*, November 2019 <https://tinyurl.com/u5cvucu>
  - “The Hard Problem Of Consciousness Revisited” Blackheath Philosophy Forum, Apr 2019
  - “The ‘painless woman’ helps us see how anxiety and fear fit in the big picture of pain” in *The Conversation*, April 2019 <http://tinyurl.com/yy9mc3oa>; translated for Indonesian Edition May 2019 <https://tinyurl.com/y5gx5kk7>
  - Exhibit video for “Born or Built?” exhibit, Questacon, Canberra 2019-present
  - *Dialogues: A philosophy podcast*: Episode 13 guest, December 2018.
  - “Why we need more than just data to create ethical driverless cars” (Seth Lazar and Colin Klein) in *The Conversation*, October 2018. <https://tinyurl.com/y8javks7>
  - Radio ABC Breakfast with Simon Lauder: regular guest during 2018.
  - “Online conspiracy theorists are more diverse (and ordinary) than most assume” (Colin Klein, Peter Clutton, and Vince Polito). In *The Conversation*, March 2018, <https://tinyurl.com/y7xsktno>
  - BBC4 interview for “Inside the Killing Jar” <http://www.bbc.co.uk/programmes/b09qfwpt>
  - “Gay-identifying AI tells us more about stereotypes than the origins of sexuality.” In *The Conversation*, September 2017 <https://tinyurl.com/y7xghe41>
  - “Sci phi” podcast featured philosopher of Science, June 2017, [www.sciphipod.com](http://www.sciphipod.com)
  - “Is Pain all in your head?” Pint of Science, May 2017.
  - “The Philosophy of Pain,” invited presentation to the ‘Kinky Hong Kong’ gathering (via Skype), November 2016.
  - Live radio interview for ABC Radio National Afternoons on insect consciousness, April 22, 2016. Archived version at <http://tinyurl.com/jnj7lg>
  - “What can insects tell us about the origins of consciousness?” (Colin Klein and Andrew Barron) in *The Conversation*, April 2016 <http://tinyurl.com/z5zk4tv>
  - New Books in Philosophy podcast, January 15 2016. <http://tinyurl.com/zlgn7b>
  - ‘When We Enjoy our Pains: The Mysteries of Masochistic Pleasure.’
    - ‘Philosophy Short Cuts’ series, Macquarie University, May 2015
    - Sydney Nerd Night, May 2015
  - ‘When Should I Throw Myself on a Hand-Grenade?’ as part of ‘Art, Access, and Action: The Moral Imperative,’ Columbia College Chicago, April 2010

## GRANTS

- Templeton World Charity Foundation (2021-2025) “The major transitions in the evolution of cognition” TWCF-2020-20539 (with Andrew Barron and Marta Halina)
- Templeton World Charity Foundation (2020-2022) “Moral Skill and Artificial Intelligence.” (with Claire Benn, Seth Lazar, and Jenny Davis)
- ANU Humanising Machine Intelligence Grand Challenges Project (2019-2024), co-CI
- Australian Research Council Discovery Project “Trust in a Social and Digital World” (With Mark Alfano) DP190101507 (2019-2023)
- ANU Futures Grant (2018-2023)
- Australian Research Council Future Fellowship “Changing your mind by changing your brain: An interventionist perspective on cognitive neuroscience” FT140100422 (2014-2018)
- Macquarie Faculty of Arts Visiting Research Fellowship grant (for Carl Craver) (2017)
- Macquarie University Research Development Grant (with Vincent Polito and David Kaplan) “The science of human responsibility: An interdisciplinary approach to understanding the sense of agency.” (2016-2017)
- CAVE Workshop grant for “The Feeling of Suffering” (2016)

- CAVE Workshop grant for “Predictive Coding, Agency, and Delusions” (2015)
- Macquarie Faculty Research Travel Scheme (2014)
- LAS Interdisciplinary Research Award (with David Hilbert, Anne Eaton, and David Wirtshafter) (2009)
- Research Development Grant, Irish Research Council for the Humanities and Social Sciences (with Chris Mole) (2009)

## AWARDS AND COMPETITIVE FELLOWSHIPS

- CASS Award for Excellence in Education (Highly Commended) 2022
- David Harold Tribe Philosophy Award (2016), awarded for *What the Body Commands*
- Visiting International Professor, Ruhr University Bochum (2017-2018)
- Faculty Award for Research Excellence, Macquarie University (2016)
- Research Fellow, Australian National University (2013)
- UIC Humanities Institute Fellow (2009-10)
- Graduate Student Fellowship, Princeton University (2001-6)
- Edward S. Reed Prize, F&M College (2001)
- Phi Beta Kappa, Franklin and Marshall Chapter (2001)
- Dana Scholar, F&M College. (1999-2001)
- John Marshall Scholar, F&M College. (1997-2001)

## CONFERENCES AND WORKSHOPS ORGANIZED

- ASSP 2023, ANU, December 2023
- “Foundations of Computation” ANU, July 2023
- “Neural computation and neural representation” ANU, August 2022
- “Digital Trust Workshop” ANU, Feb 2022
- “Scientific Modelling: Pushing the boundaries” ANU, June 2019
- “Recent work on attention” (co-organiser). ANU, May 2019
- The Australasian Society for Philosophy and Psychology 2018 (organising committee), Macquarie University, Dec 2018.
- “Animal Sentience: Pushing the Boundaries,” ANU, August 2018
- “Conspiracy theories, delusions and other ‘troublesome’ beliefs”, Macquarie University, August 2017
- “Reshaping the mind: New work on cognitive ontology,” Macquarie University, June 2016
- Joint workshop “The Feeling of Suffering” (co-organized with the Glasgow Value of Suffering project, CAVE, and UNSW), Macquarie University, February 2016
- Australasian Association for Philosophy (Organizing Committee), Macquarie University, July 2015
- CAVE-CCD Workshop: “Amnesia and identity: Self, memory, and moral psychology” (co-organizer), Macquarie University, 2015
- “Predictive Coding, Agency, and Delusions” Macquarie University, May 2015
- Macquarie Cognitive Ontology Workshop, Macquarie University, February 2015
- Sid Simpson Symposium (co-organizer with the Laboratory for Integrative Neuroscience), University of Illinois at Chicago, April 2012

## UNIVERSITY SERVICE

- **The Australian National University**
  - Bachelor of Philosophy, Neuroscience, and Psychology working group (2022-present)
  - Affiliate Investigator, Humanising Machine Intelligence Project (2022-present)
  - Deputy Head, School of Philosophy (2019-present)
  - School of Philosophy Equity Working Group (2019-present)
  - ANU NECTAR mentoring program (2019-present)

- Department Representative, RSSH Visiting Fellows Committee (2018-present)
- ANU School of Philosophy Website Taskforce (2018-2019; 2021-present)
- CI, Humanising Machine Intelligence Project (2018-2022)
- Executive Committee, Humanising Machine Intelligence Project (2018-2022)
- RegNet level D/E search committee, external member (2021)
- School Representative, RSSH building control group (2018-2020)
- Acting Director, ANU Centre for the Philosophy of Sciences (2018)
- ANU Thursday Seminar Convener (S2 2013)
- **Macquarie University**
  - MQRDG Research Projects panel (S2 2016)
  - MQ Departmental International Engagement Coordinator (S1 2014, 2016-2017)
- **University of Illinois at Chicago**
  - UIC LAS Educational Policy Committee (2011-2012, Chair F'12)
  - Graduate Admissions Committee, UIC philosophy department (2007-8, 2011-12)
  - UIC Honors College Faculty Fellow (2011-2013)
  - UIC Student Conduct Panel Member (2011-2013)
  - UIC LAS scholarship committee (2011)
  - UIC Philosophy Department Executive Committee (2010-12)
  - Webmaster & Gossip-monger, UIC philosophy department (2006-12)
  - UIC LAS quorum committee (2006-9)

## OTHER PROFESSIONAL SERVICE

- Philosophy Section Editor, Open Encyclopedia of Cognitive Science (2023-present)
- Secretary, Australasian Society for Philosophy and Psychology (2017-2019, 2022-present)
- Aphil-L list moderator, 2022-2023
- Area editor for *Ergo* (philosophy of mind), (2015-2023)
- Advisory board, “The Cognitive Neuroscience of Religious Cognition,” (John Templeton Foundation, 2022)
- Program Committee Member, Philosophy of Science Association (2014, 2020)
- Initial Organising Committee, Australasian Society for Philosophy and Psychology (2016)
- Associate editor for *Philosophical Explorations* (2015-2018)
- Program Committee Member, European Philosophy of Science Association (2015)
- Program Committee Member, Australasian Society for Cognitive Science (2014)

## POSTDOCTORAL SUPERVISION

- Alexandre Duval (2022-present; TWCF)
- Sarita Rosenstock (2019-2022; HMI)
- Ignacio Ojea Quintana (2019-2022; DP190101507 & ANU Futures)
- Atoosa Kasirzadeh (2019-2021; HMI)
- Julia Haas (2019; ANU Futures)

## POSTGRADUATE ADVISING

- **The Australian National University**
  - PhD:**
    - Robert Farquaharson (2022; committee)
    - Michael Bennett (in progress; committee; Computer Science)
    - Ross Pain (2022; committee) *Evidence, Inference and Human Evolution: Essays in the Philosophy of Cognitive Archaeology*
  - Masters & Honours:**
    - Josh Nguyen (2023; committee; Masters in Computer Science) *Data-Driven Understanding of Real-Life Moral Dilemmas*

- Rex Henderson (2022\*) *Can We Align Democratic Artificial Moral Agents With Our Values?*
- Helen Chen (2020\*) *Can the Meta-Problem of consciousness make progress on the Hard Problem?*
- Maeva Bennetto Peris (2018) *Mouse Models of Autism: Frameworks and Limitations* (\*1st class honours)
- **Macquarie University**
  - PhD:**
    - Anelli Janssen (2019; joint between Macquarie University and Nijmegen. Primary Supervisor) *Cognitive ontology and explanations in functional neuroimaging research*
    - Antonios Kaldas (Primary Supervisor through 2017; completed 2019) *Attention, Consciousness, and Working Memory*
    - Matthew Tuxford (Primary Supervisor through 2017; completed 2019) *Complexity Economics: A Mechanistic Methodological Framework for Economic Science*
    - Trisha Nowland (Associate Supervisor through 2017) *A conceptual framework for the generalized latent variable model.*
  - MRes (As primary supervisor):**
    - Meg Ivory (in 2017) *Drosophila melanogaster as a model for schizophrenia: a philosophical inquiry.*
    - Stephen Gadsby (2016) *Anorexia Nervosa and Body Representation*
    - Dinyar Mistry (2015) *Models of Neural Computation: An Examination of David Chalmers' Causal Theory of the Mind*
    - Peter Clutton (2015\*) *A Realist Defence of Doxasticism about Delusions: The Cognitive Phenomenological Defence* (\*Received university medal)
- **University of Illinois at Chicago (PhD)**
  - David Schaffer (2018) *Towards an Account of Passive Belief* (Committee)
  - Janella Baxter (2017) *Causal Parity and Causal Selection in Molecular and Cellular Biology.* (Committee)
  - Burkay Ozturk (2014) *The Pessimistic Induction and Epistemic Status of Theories: The Extent and The Limits of Post-Computerization Optimism* (Primary Supervisor)
  - Sean Morris (2012) *Investigating the Universe: Quine, New Foundations, and the Philosophy of Set Theory* (Committee)
  - Aleks Zarnitsyn (2012) *Fictioning Thought Experiments* (Committee)
  - Robert Fischer (2011) *Modal Knowledge, In Theory* (Associate Supervisor)
  - Seishu Nishimura (2010) *A Theory of Perceptual Entitlement* (Associate Supervisor)
  - David Potts (2010) *Theories of Experiential Awareness* (Associate Supervisor)
- **Elsewhere**
  - Laurenz Casser (ongoing; UT Austin, external co-supervisor) *Pain without Inference*
  - Sabrina Coninx (2019; Ruhr-Universität Bochum. Joint Supervisor.) *Experiencing Pain – A Scientific Enigma & Its Philosophical Solution.*

## CLASSES TAUGHT

- **Australian National University:**
  - Logic and Critical Thinking (x4)
  - Foundations Seminar: Cognitive Penetrability (S1 2021)
- **Macquarie University:**
  - Body and Mind
  - MRes seminar: Research Topics in Philosophy and Cognitive Science
  - (co-taught) FOAR 702: Posthumanism
- **University of Illinois at Chicago:**
  - Introduction to Philosophy (x3)
  - Introductory Logic (x3)
  - Philosophy of Psychology (x6)
  - Philosophy of Science
  - Philosophy of Language
  - Topics in Philosophy of Mind: Pain Perception (x2)
  - Topics in Philosophy of Science: Scientific Explanation
  - Graduate seminar: Nonreductive physicalism
  - Graduate seminar: Functions and Parts
  - Graduate Seminar: From Brain to Mind
  - Graduate Seminar: Explanation and Reduction
  - First Year Graduate Writing Seminar

*Last compiled August 21, 2023*