

Mikio Akagi

Senior Research Analyst, Ethical AI
Trilateral Research

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based in Dún Laoghaire
Co. Dublin, Ireland

EMPLOYMENT

- Trilateral Research Ltd.** Waterford, Ireland & London, UK
2023– Senior Research Analyst, Ethical AI
- Texas Christian University** Fort Worth, Texas USA
FALL 2022 Associate Professor of the History and Philosophy of Science, John V. Roach Honors College
2016–2022 Assistant Professor of the History and Philosophy of Science, John V. Roach Honors College
- University College Dublin** Dublin, Ireland
FALL 2017 Visiting Assistant Professor, School of Philosophy

EDUCATION

- 2016 **Ph.D.**, University of Pittsburgh
Philosophy
- 2009 **MSc**, University of Edinburgh, with distinction
Philosophy with specialisation in Mind, Language, and Embodied Cognition
- 2008 **B.A.**, Swarthmore College, with High Honors
Philosophy

AREAS OF INTEREST

- primary (AOS) Philosophy of Mind and Cognitive Science; Prejudice and Discrimination; AI Ethics
secondary (AOC) Philosophy of Science; Philosophy of Technology; Social and Political Philosophy

PUBLICATIONS

peer-reviewed journal articles

- forthcoming **Akagi, Mikio.** 'Structural Microaggressions for Explaining Outcome Gaps'.
Philosophy of Science. DOI: 10.1017/PSA.2023.137.
Pre-print: philsci-archive.pitt.edu/22632/.
- 2022 **Akagi, Mikio.** 'Cognition as the Sensitive Management of an Agent's Behavior'.
Philosophical Psychology 35: 718–741. DOI: 10.1080/0951089.2021.2014802.
Post-print: philsci-archive.pitt.edu/20031/.
- 2021 **Akagi, Mikio** and Frederick W. Gooding, Jr. 'Microaggressions and Objectivity:
Experimental Measures and Lived Experience'. *Philosophy of Science* 88: 1090–1100.
DOI: 10.1086/715219. Post-print: philsci-archive.pitt.edu/19967/.

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2020 **Akagi, Mikio.** ‘Phenomenality, Conscious States, and Consciousness Inessentialism.’ *Phenomenology and the Cognitive Sciences* 19: 803–819.
DOI: 10.1007/s11097-019-09633-6.

2018 **Akagi, Mikio.** ‘Rethinking the Problem of Cognition.’ *Synthese* 195: 3547–3570.
DOI: 10.1007/s11229-017-1383-2. Post-print: philsci-archive.pitt.edu/19977/.

2009 Durgin, Frank H., **Mikio Akagi**, Charles R. Gallistel, and Woody Haiken. ‘The Precision of Locomotor Odometry in Humans.’ *Experimental Brain Research* 199: 429–436. DOI: 10.1007/s00221-008-1640-1.

book chapter

forthcoming Mourkousis, Georgios, Matthew Protonotarios, Chrysostomos Antoniou, Andreas Kriechbaum-Zabini, Stephan Veigl, Jonathan Boyle, Lulu Chen, George Voskopoulos, Romaios Bratskas, Laura Salmela, Jari Laarni, Antti Väättänen, Sirra Toivonen, **Mikio Akagi** and Claudia-Iohana Voicu. ‘EURMARS – An Advanced Surveillance Platform to Improve the European Multi Authority Border Security Efficiency and Cooperation.’ In *Paradigms on Technology Development for Security Practitioners*, edited by Babak Akhgar, Dimitrios Kavallieros, Ilias Gkotsis, Stefanos Vrochidis, Nikolai Stoianov and Dimitrios Diagourtas. Springer Nature.

book review and critical commentary

2020 **Akagi, Mikio.** Review of *Beyond Concepts: Unicepts, Language, and Natural Information* by Ruth Garrett Millikan (OUP, 2017). *Philosophical Quarterly* 70: 199–201.
DOI: 10.1093/PQ/PQZO13.

2019 **Akagi, Mikio.** ‘Finding the Bounds of Machery’s Critique.’ Critical discussion of *Philosophy within Its Proper Bounds* by Edouard Machery (OUP, 2017). *International Journal of Philosophical Studies* 27: 584–591. DOI: 10.1080/09672559.2019.1655945.

report

2023 Trilateral Research (Contributors: Goldberg, Zachary J., **Mikio Akagi**, David Barnard-Wills, Christopher Fischer, Ben Howkins, Tim Jacquemard, Christopher Nathan, Irma Poder, Anaïs Resseguier, and Fabienne Ufert). ‘Report on the Core Principles and Opportunities for Responsible and Trustworthy AI’. Published by Innovate UK and BridgeAI. Available at iuk.ktn-uk.org/wp-content/uploads/2023/10/responsible-trustworthy-ai-report.pdf.

published abstracts

2007 **Akagi, Mikio** and Frank H. Durgin. ‘Accurate Perception of Visual Space from Live-video in a Head-mounted Display.’ *Journal of Vision* 7: 283. DOI: 10.1167/7.9.283.

2006 Durgin, Frank H., Krista Gigone, **Mikio Akagi** and Kristina Simmons. ‘Visual Flow Speed Discrimination while Walking.’ *Abstracts of the Psychonomic Society* 11: 5.

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OTHER WORKS

dissertations

- 2016 **Akagi, Mikio.** 'Cognition in Practice: Conceptual Development and Disagreement in Cognitive Science' (PhD dissertation). Department of Philosophy, University of Pittsburgh. (Archive version).
- 2009 **Akagi, Mikio.** 'Functionalism and the Case for Modest Cognitive Extension' (MSc dissertation). School of Philosophy, Psychology & Language Sciences, University of Edinburgh. (Link).

academic preprints

- 2018 **Akagi, Mikio.** 'Representation Re-construed: Construal-based Norms for Ascribing Natural Representations'. PhilSci Archive. Preprint, submitted in 2018.
<http://philsci-archive.pitt.edu/15200/>.
- 2014 **Akagi, Mikio.** 'Going against the Grain: Functionalism and Generalization in Cognitive Science'. PhilSci Archive. Preprint, submitted in 2014.
<http://philsci-archive.pitt.edu/11100/>.
- 2009 **Akagi, Mikio.** 'Sellars on Functionalism and Normativity'. PhilArchive. Preprint, submitted in 2020. <https://philpapers.org/rec/AKASOF/>.

teaching resources

- 2020 'Teaching from Home: Some Technical Advice'. (mikioakagi.net/technical-advice).
- 2019 'Advice for Argument Maps'. (PDF; last updated 2021).
- 2017 'Guidelines for Reading'. (mikioakagi.net/teaching/reading; last updated 2020).
- 2016 'Philosophical Methods'. (PDF; last updated 2020).

selected work in progress

- [Manuscript on a sociotechnical approach to AI ethics assessment.]
[Manuscript on how to model contested scientific terms like 'disease'].
[Manuscript on how scientists ascribe representations].
[Manuscript on Ethics-by-Design for AI in security contexts]

GRANTS, FELLOWSHIPS, AND HONOURS

with funding

- 2021 Maryrose Short Teaching Excellence Award, \$6000 TCU
- 2018 Honors programming grant, \$2500 TCU J.V.R. Honors College
- 2017 Junior Faculty Summer Research Project Grant, \$6000 TCU
- 2015 Provost's Development Fund, \$17,800 University of Pittsburgh
- 2013 Wesley C. Salmon Fund Grant, \$6000 University of Pittsburgh
- 2013 Graduate Student Travel Award, \$1400 Southern Society for Philosophy and Psychology
- 2009 Best Dissertation Award, £100 Edinburgh University School of Philosophy, Psychology & Language Sciences

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- 2008 University of Edinburgh International Master's Scholarship, £3000
2008 Phi Beta Kappa Fellowship, \$3600 Swarthmore College
2008 Hannah A. Leedom Fellowship, \$5000 Swarthmore College

without funding

- 2020 finalist, Honors Professor of the Year TCU
2015 finalist, William James Prize Society for Philosophy and Psychology
2008 Phi Beta Kappa Liberal Arts Honour Society
2006 Sigma Xi Scientific Research Society

SELECTED PRESENTATIONS

peer-reviewed academic presentations

- 2022 'A Structural Microaggression Concept for Causal Inquiry'. Symposium on 'New Directions in the Science of Structural Oppression' (co-organised with Morgan Thompson, Shen-yi Liao, Daniel James, and Tereza Hendl). Twenty-eighth Biennial Meeting of the Philosophy of Science Association. Pittsburgh, Pennsylvania USA. 12 November.
- 2021 'How Faculty of Color Digest the Honors Experience in the "Belly of the Beast"'. (Gooding, Frederick W., Jr., **Mikio Akagi**, Estee Hernandez, and Wendi Sierra). NCHC Virtual Roundtable. National Collegiate Honors Council. Online. 17 November.
- 2021 'Microaggressions and Objectivity: Experimental Measures and Lived Experience'. (**Akagi, Mikio** and Frederick W. Gooding, Jr.). Twenty-seventh Biennial Meeting of the Philosophy of Science Association. Baltimore, Maryland USA. 12 November. Pre-print archived at philsci-archive.pitt.edu/18624/.
- 2019 'Microaggressions and Objectivity' (**Akagi, Mikio** and Frederick W. Gooding, Jr.). Socially Engaged Philosophy of Science in the Middle States, a conference hosted by the Mid-South Philosophy of Science Network. University of Kentucky. Lexington, Kentucky USA. 29 March.
- 2018 'Representation Re-construed: Answering the Job Description Challenge with a Construal-based Notion of Natural Representation.' Fiftieth Anniversary Meeting of the Philosophy of Science Association. Seattle, Washington USA. 02 November. (poster) Pre-print archived at philsci-archive.pitt.edu/15200/.
- 2018 'Representation Re-construed: Construal-based Norms for Ascribing Natural Representation'. Seventh Biennial Meeting of the Society for Philosophy of Science in Practice. Universiteit Gent. Ghent, BELGIUM. 30 June.

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- 2016 'Parameterization as a Framework for Modeling Contested Scientific Concepts'. Twenty-fifth Biennial Meeting of the Philosophy of Science Association. Atlanta, Georgia USA. 04 November. (poster)
- 2016 'Cognition as the Sensitive Management of Organismal Behavior'. Forty-second Annual Meeting of the Society for Philosophy and Psychology. University of Texas at Austin. Austin, Texas USA. 01 June. (poster)
- 2015 'Characterizing Cognition: Moving beyond the Mark of the Cognitive'. Forty-first Annual Meeting of the Society for Philosophy and Psychology. Duke University. Durham, North Carolina USA. 05 June.
- 2014 'Going against the Grain: Functionalism and Generalization in Cognitive Science'. Twenty-fourth Biennial Meeting of the Philosophy of Science Association. Chicago, Illinois USA. 06 November. Pre-print archived at philsci-archive.pitt.edu/11100/.
- 2014 'Laying down the Law: Substituting Mechanism for Functionalism'. Fortieth Annual Meeting of the Society for Philosophy and Psychology. University of British Columbia. Vancouver, British Columbia CANADA. 19 June. (poster)
- 2013 'Cognitive Scientists Are Not Computational Functionalists'. Fourth Biennial Meeting of the Society for Philosophy of Science in Practice. University of Toronto. Toronto, Ontario CANADA. 29 June.
- 2013 'Cognitive Scientists Are Not Computational Functionalists'. Southern Society for Philosophy and Psychology. Austin, Texas USA. 28 February.
- 2012 'Phenomenal Consciousness, Conscious States, and the Hard Problem'. Thirty-eighth Annual Meeting of the Society for Philosophy and Psychology. University of Colorado, Boulder. Boulder, Colorado USA. 22 June. (poster)
- invited presentations
- 2021 'Do Mental Illnesses Have Specific Causes?' Clinical Psychology Residency Didactic Series. Tripler Army Medical Center. Honolulu, Hawai'i USA. 19 November.
- 2021 'Microaggressions in Social Explanation and Individual Phenomenology'. Minnesota Center for Philosophy of Science. University of Minnesota. Minneapolis, Minnesota USA. 17 September.
- 2017 'Modular Explication in Philosophy of Medicine'. Workshop on "Methods under the Microscope: Investigating Methodological Diversity in Philosophy." University College Dublin. Dublin, IRELAND. 27 October.

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- 2017 'You Say Potato; I Say Parameterization: Modelling Conceptual Disagreement by Tracking Background Commitments'. Workshop on "Disagreement in Science and Beyond." University College Dublin. Dublin, IRELAND. 04 July.
- 2016 'A Model of Expert Conceptual Disagreement in Cognitive Science'. Interdisciplinary workshop on "Explanatory Pluralism in Cognitive Science." University College Dublin. Dublin, IRELAND. 20 June.
- 2014 'Cognition as the Sensitive Management of Behaviour'. University of Glasgow. Glasgow, SCOTLAND. 07 March.

selected internal talks

- 2023 'An Ethics-by-Design Workflow for AI Development'. Trilateral Research. 03 October; 19 October; 16 November.
- 2023 Technical and procedural ethics risk assessment for EURMARS. EURMARS Consortium. 25 July, 31 July.
- 2019 'Microaggressions and Objectivity' (with Frederick W. Gooding, Jr.). Interdisciplinary Works in Progress Series. Texas Christian University. Fort Worth, Texas USA. 06 December.
- 2018 'What We Think about When We Think about Minds'. Frankenstein at 200: a Forum Celebrating the 200th Anniversary of Mary Shelley's *Frankenstein*. Texas Christian University. Fort Worth, Texas USA. 09 November.
- 2017 'Conceptual Analysis with an Airbrush'. Work in Progress Seminar. University College Dublin. Dublin, IRELAND. 20 November.
- 2016 'Mastery-based Assessment (for Moderates)'. SHARE (Some Helpful Advice Regarding Education), All Honors Faculty Meeting. Texas Christian University. Fort Worth, Texas USA. 02 December.
- 2014 'A New Approach to the Problem of Cognition'. Work in Progress Seminar. University of Edinburgh. Edinburgh, SCOTLAND. 24 January.

panel discussions

- 2022 "'Through My Eyes": The Personal Stories of Asian, Asian American, and Pacific Islander Faculty, Staff, and Students at TCU'. The Intercultural Center. Texas Christian University. Fort Worth, Texas USA. 07 April.
- 2021 Community panel. Chi Sigma Iota Symposium on 'Social Justice in Counseling'. Antioch University Seattle. Seattle, Washington USA. 08 May.

SUPERVISION OF STUDENT RESEARCH

Honors Thesis, co-chair

- 2019 Claire Simmons. 'Socially Just Healthcare in Mental Health Policy'.
Department of Psychology, Texas Christian University.

Honors Theses, committee member

- 2022 Liz Delapaz. 'The Visual Design of the Original Video Game *Cotler*'.
Department of Design, Texas Christian University.
- 2022 Matthew Dena. 'The Presidential Pendulum: Why It Is So Rare that a Party Holds the
Presidency for Three Consecutive Terms'. Department of Political Science,
Texas Christian University.
- 2021 Michael Bamberg. 'Explaining Explanations: Grounding, Metaphysical Explanation,
and the Structure of Reality'. Department of Philosophy, Texas Christian University.
- 2017 Cheyenne Elliott. 'Emotion Labeling with Visual Stimuli: The Effects of Physiological
Responses on Conditioning'. Department of Psychology, Texas Christian University.

TEACHING EXPERIENCE

postgraduate module

- UCD Critiquing Scientific Inference: Cognitive Psychology Fall 2017; Philosophy MA/Cognitive Science MSc

undergraduate modules

- TCU Honors Understanding Science 2x: Fall 2021, Fall 2022
Mind and Matter 5x: Spring 2018, Fall 2018, Spring 2019, Spring 2020, Fall 2022
Honors Experimental Colloquium Spring 2021
Philosophy and Science of Social Justice 8x: Spring 2017, Spring 2018, Spring 2019, Fall 2019, Spring 2020,
Fall 2020, Spring 2021, Spring 2022
Disease, Disorder, and Disability 2x: Fall 2020, Fall 2021
Honors Special Topics 2x: Spring 2017, Spring 2018
Nature of the Universe 5x: Fall 2016 (2x), Spring 2017, Fall 2018, Fall 2019
- TCU Philosophy Directed Studies Spring 2020
- Pitt Social Philosophy 2x: Fall 2014, Summer 2015
- Swarthmore Empiricism and Language in 20th Century Analytic Philosophy Spring 2008; student-taught seminar

high school module

- Introduction to Philosophy Summer 2007

other teaching-related activity

- 2024 AI ethics trainings for public sector employees and managers Trilateral Research
- 2023 AI ethics trainings for technology developers Trilateral Research
- 2022 Anti-bias trainings for hiring committees TCU J.V.R. Honors College
- 2020 Certified to teach hybrid and online courses TCU
- 2017 Organiser: 'Disagreement in Dublin' study abroad excursion TCU
- 2012–2013 Teaching Fellow Mentor University of Pittsburgh Department of Philosophy

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2012 Course Organiser: Teaching Practicum University of Pittsburgh Department of Philosophy
2011–2012 Mentor/discussant: Baginski Scholar Program Central Catholic High School, Pittsburgh

PROFESSIONAL SERVICE

Reviewer: *International Journal of Data Science and Analytics*, *British Journal for the Philosophy of Science*, *Mind and Language*, *Philosophical Psychology*, *Phenomenology and the Cognitive Sciences*, *Adaptive Behavior*, *Synthese*, *Philosophy and Technology*, *Minds and Machines*, *Topoi*

Session chair: workshop on ‘Methods under the Microscope’ (2017), ‘Trust, Expert Opinion, and Policy’ (2017), workshop on ‘Being With: Intersubjectivity and Its Commitments’ (2017), Pitt-CMU Graduate Conference (2010–2012)

2023 Co-organiser: Workshop on ‘The Ethics of Border Management Surveillance Technology’ EURMARS

2021–2023 Editorial Board: Cultural Studies of Science and Medicine Springer Nature book series

2018–2019 Steering Committee: Fourth Ronald E. Moore Humanities Symposium TCU

2019 Book review guest editor: symposium on Edouard Machery’s *Philosophy within Its Proper Bounds* for the *International Journal of Philosophical Studies*

2017 Organiser (and graphic designer): Workshop on ‘Methods under the Microscope: Investigating Methodological Diversity in Philosophy’ WEXD/UCD School of Philosophy

2012 Chief organiser: Annual Pitt-CMU Philosophy Graduate Conference

2009–2012 Organising committee: Annual Pitt-CMU Philosophy Graduate Conference

INSTITUTIONAL SERVICE

administrative role

2021–2022 College Diversity Advocate, TCU John V. Roach Honors College

university service, TCU

2021–2022 Portrait Project

2019–2022 Organiser/graphic designer: Interdisciplinary Works in Progress Series

2017–2022 Faculty member: Phi Beta Kappa, TCU Chapter (Delta of Texas)

2018, 2022 Judge: College of Science and Engineering Honors Symposium

2022 Judge: Paul Wassenich Founder’s Medal Award

2022 Honors Dean Search Committee (diversity advisor and full member)

2020–2021 Administrative Council

2019–2020 Consulting Committee on Student Disability Services

2019 Faculty partner: Frog Camp (augmented off-campus orientation program)

2017–2019 Judge: Paul Wassenich Founder’s Medal Award

2018 Assistant coordinator: “Frankenstein at 200” forum

2017, 2018 Interviewer/judge: Chancellor’s Scholars Weekend

college service, TCU John V. Roach Honors College

2022 Chair: Committee on Diversity, Equity, and Inclusion

2018–2022 Honors College Curriculum Committee

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2018–2022	Honors College Council
2021	Honors admissions reader
2020	Faculty presenter: “A Taste of Honors” fundraiser
2019	Facilitator: Honors Kick-off
2017–2019	Honors Preview Nights (student recruitment events)
2017–2018	Tenure-track Faculty Search Committee
2016	Honors Advisor Search Committee

departmental service, University of Pittsburgh

2014–2015	Minorities and Philosophy (MAP)	Depts. of Philosophy, History and Philosophy of Science
2014–2015	Faculty Search Committee	Department of Philosophy

WORKING GROUPS

2023–	Data Protection and Cyber-risk Services Team	Trilateral Research
2023–	Research Ethics Working Group	Trilateral Research
2023–	Sociotech for Good Team, ‘Honeycomb’ product development group	Trilateral Research
2023–	Ethics-by-Design Workflow working group	Trilateral Research
2023–	Ethics Innovation Team	Trilateral Research
2023–2024	Innovation & Research Team, Crisis & Security Cluster	Trilateral Research
2020–2023	APIDA Higher-Ed. Group Chat on Confronting Anti-Blackness	inter-university (co-founder)
2018–2020	Faculty Learning Community: Honors Education	TCU
2017	Reading group on Edouard Machery’s <i>Philosophy within Its Proper Bounds</i>	UCD (organiser)
2013–2014	Artificial Intelligence Reading Group	University of Edinburgh
2013–2014	‘Meta’ Reading Group	University of Edinburgh
2010–2013	Philosophy of Cognitive Science Working Group	University of Pittsburgh (co-organiser)
2008–2009	Philosophy, Psychology and Informatics Reading Group (PPIG)	University of Edinburgh
2006–2008	‘Emergent Systems: A Discussion’ Interdisciplinary Working Group	Bryn Mawr/Swarthmore

PROFESSIONAL MEMBERSHIPS

Philosophy of Science Association
Society for Philosophy of Science in Practice

LANGUAGE PROFICIENCY

native	English
working	French
limited	Japanese, Irish, German