Hanti Lin

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Academic Positions

- University of California, Davis   Assistant Professor   Starting on 7/1/2014
- Australian National University   Postdoctoral Fellow   8/15/2013 – 8/15/2015

Areas of Specialization

- Philosophy of Science
- Epistemology (including both traditional and formal episteomlogies)
- Philosophical Logic

Areas of Competence

- Philosophy of Language
- Philosophy of Mathematics

Education

Ph.D. Philosophy, Carnegie Mellon University   December 19, 2013
Dissertation: "Propositional Reasoning that Tracks Probabilistic Reasoning"
Committee: Kevin Kelly (Advisor), Clark Glymour, David Makinson (London School of Economics), Hannes Leitgeb (Munich Center for Mathematical Philosophy)

M.S. Logic, Computation and Methodology, Carnegie Mellon University   December 16, 2010
Thesis: "A New Probabilistic Semantics for Conditional Logic"
Committee: Kevin Kelly, Horacio Arló-Costa.

M.A. Philosophy, University College London   November 1, 2007
Thesis: "Scientific Practice and the Indispensability Argument"
Advisor: Mark Kalderon

B.S. Physics, National Taiwan University   June 1, 2003

Published Research Papers

1. **Lin, H.** (forthcoming) "Modes of Convergence to the Truth: Steps toward a Better Epistemology of Induction", *the Review of Symbolic Logic*.

2. Kelly, K. T. and **Lin, H.** (2021) "Beliefs, Probabilities, and Their Coherent Correspondence", Douven, I. (ed.) *Lotteries, Knowledge, and Rational Belief: Essays on the Lottery Paradox*, Cambridge University Press, pp. 185-222.

3. **Lin, H.** and Zhang, J. (2020) "On Learning Causal Structures from Non-Experimental Data without Any Faithfulness Assumption", *the Proceedings of Machine Learning Research*, 117: 554-582.

4. **Lin, H.** (2019) "The Hard Problem of Theory Choice: A Case Study on Causal Inference and Its Faithfulness Assumption", *Philosophy of Science*, the December 2019 Proceedings Issue.

5. Hájek, A. and **Lin, H.** (2017) "A Tale of Two Epistemologies?", *Res Philosophica*, 94(2): 207-232.

6. **Lin, H.** (2017) "Enumerative Induction and Semi-Uniform Convergence to the Truth", in Baltag, A., Seligman, J. and Yamada, T. (eds.) *Logic, Rationality, and Interaction: Proceedings of the 6th International Workshop, LORI 2017*, Lecture Notes in Computer Science, Springer, 362-376.

7. Kelly, K. T., Genin, K. and **Lin, H.** (2016) "Realism, Rhetoric, and Reliability", *Synthese*, 193(4): 1191-1223.

8. **Lin, H.** (2016) "The Meaning of Epistemic Modality and the Absence of Truth", in Yang, C-M., Deng, D.-M., and Lin, H. (eds.) *Structural Analysis of Non-Classical Logics*, Berlin: Springer-Verlag.

9. **Lin, H.** (2016) "Bridging the Logic-Based and Probability-Based Approaches to Artificial Intelligence", in Hung, T.-W. (ed.) *Rationality: Constraints and Contexts*, Amsterdam: Elsevier.

10. **Lin, H.** (2014) "On the Regress Problem of Deciding How to Decide", *Synthese*, 191: 661-670 (in a special issue on infinite regress).

11. **Lin, H.** and Kelly, K. T. (2013) "Comments on Leitgeb's Stability Theory of Belief", in van Benthem, J. and Liu, F. (eds.) *Logic Across the University: Foundations and Applications* (in the series *Studies in Logic*), College Publications London.

12. **Lin, H.** (2013) "Foundations of Everyday Practical Reasoning", the *Journal of Philosophical Logic*, 42(6): 831-862 (in a special issue as the *Proceedings of the 10th Conference on Logic and the Foundations of Game and Decision Theory* (LOFT 2012)).

13. **Lin, H.** and Kelly, K. T. (2012*a*) "Propositional Reasoning that Tracks Probabilistic Reasoning", the *Journal of Philosophical Logic*, 41(6): 957-981.

14. **Lin, H.** and Kelly, K. T. (2012*b*) "A Geo-logical Solution to the Lottery Paradox, with Applications to Conditional Logic", *Synthese*, 186: 531-575.

Published Survey Article

15. **Lin, H.** (forthcoming) "Bayesian Epistemology", currently under review by *The Stanford Encyclopedia of Philosophy*.

16. **Lin, H.** (2019) "Belief Revision Theory", in Pettigrew, R. and Weisberg, J. (ed.) *The Open Handbook of Formal Epistemology*, Open Access.

Manuscripts Peer-Reviewed and Accepted for Presentation at Conferences

17. **Lin, H.** (manuscript) "Hume's Dilemma and the Evaluative Turn: How We Can Justify at Least Some Kind of Induction", presented at the 2017 Meeting of the Society for Exact Philosophy.

18. **Lin, H.** (manuscript) "When 'Or' Meets 'Might': Toward Acceptability-Conditional Semantics", presented at the 2015 Central APA.

19. **Lin, H.** (manuscript) "Conditionals and Actions: A Pragmatic Argument for Adams' Logic of Indicative Conditionals", presented at the 2014 Formal Epistemology Workshop.

Manuscripts Invited for Presentation at Conferences

20. **Lin, H.** (manuscript) "Pursuit of Platonic Tethering to the Truth", invited for presentation at eight conferences/departments, including the 2019 Central Division Meeting of APA 21(f).

21. **Lin, H.** and Zhang, J. (manuscript) "How to Tackle an Extremely Hard Learning Problem: Learning Causal Structures from Non-Experimental Data without the Faithfulness Assumption or the Like", whose main theorem is to be reported at 24(a), now under review by *Journal for Machine Learning Research*.

Presentations since November 2017

22. Pursuit of Platonic Tethering to the Truth

    (a) Conference on Computational Methods and the Future of Science, University of Kansas (Lawrence, USA) June 14-15, 2019

    (b) Departmental talk at Lingnan University (Hong Kong) May 7, 2019

    (c) (Keynote Speech at) Workshop on Logics for the Formation and Dynamics of Social Norms, Zhejiang University (Hangzhou, China) 4-5 May 2019

    (d) (Keynote Speech at) Sacramento State Philosophy Symposium on Artificial Intelligence, California State University at Sacramento (Sacramento, USA) April 3, 2019

    (e) 6th Annual Philosophy Mountain Workshop (Tahoe, USA) March 8-10, 2019

    (f) Symposium on the Philosophy of Machine Learning at the 2019 Central Division Meeting of the American Philosophical Association (Denver, USA) February 20-23, 2019.

    (g) Departmental talk at University of Melbourne (Australia) July 27, 2018

    (h) Departmental Colloquium (Philosophy Society Colloquium Series) at the Australian National University (Australia) July 24, 2018

23. Modes of Convergence to the Truth: Steps toward a Better Epistemology of Induction

    (a) 15th Annual Formal Epistemology Workshop, University of Toronto, (Canada) June 13, 2018.

    (b) 46th Annual Meeting of the Society for Exact Philosophy Conference, University of Connecticut in Storrs (USA) May 19, 2018.

    (c) Colloquium at the Working Group in the History and Philosophy of Logic, Mathematics, and Science at UC Berkeley (USA) April 11, 2018.

    (d) Departmental Colloquium at the Munich Center for Mathematical Philosophy (Germany) March 1, 2018.

    (e) Workshop on Epistemic and Practical Rationality: Differences, Relations and Overlaps, University of Fribourg (Switzerland) February 22, 2018.

    (f) 2017-2018 Winter Meeting of the Association for Symbolic Logic, with the Eastern Division Meeting of the American Philosophical Association (Savannah, Georgia, USA), January 3-6, 2018.

    (g) 7th Asia-Pacific Conference on Philosophy of Science (Chiayi, Taiwan), December 15-16, 2017.

24. The Hard Problem of Theory Choice: A Case Study on Causal Inference and Its Faithfulness Assumption

    (a) 26th Biennial Meeting of the Philosophy of Science Association, (Seattle, USA) November 1-4, 2018

25. How to Tackle an Extremely Hard Learning Problem: Learning Causal Structures from Non-Experimental Data without the Faithfulness Assumption or the Like

    (a) Workshop on Foundations of Causal Discovery, Carnegie Mellon University (Pittsburgh, USA) September 22-23, 2018

26. Bayesian Pursuit of Truth: On an Influential and yet Underappreciated Solution to the Problem of the Priors

    (a) Departmental Colloquium at California Institute of Technology (USA) May 8, 2018

Presentations before November 2017

27. Hume's Dilemma and the Evaluative Turn: How We Can Justify at Least Some Kind of Induction

    (a) Departmental Colloquium at the Kyoto University (Kyoto, Japan), September 20, 2017.
    (b) Departmental Colloquium at the University of Sydney Academia Sinica (Taipei, Taiwan), August 24, 2017.
    (c) Departmental Colloquium at the University of Sydney (Sydney, Australia), August 2, 2017.
    (d) 45th Annual Meeting of the Society for Exact Philosophy (Calgary, Canada), May 5-7, 2017, under the outdated title "The Cartesian Problem of Induction".

28. Enumerative Induction and Semi-Uniform Convergence to the Truth

    (a) 6th International Conference on Logic, Rationality and Interaction (Hokkaido, Japan), September 11-14, 2017.

29. When 'Or' Meets 'Might': Toward Acceptability-Conditional Semantics

    (a) Departmental Colloquium, University of Sydney (Australia), August 5, 2015.
    (b) Departmental Colloquium, University of Bristol (UK), May 6, 2015.
    (c) 2015 Central Division Meeting of the American Philosophical Association, Washington University at St. Louis, February 18-21, 2015.
    (d) Yale/UConn Graduate Conference, April 27-28, 2012.
    (e) Logic, Mathematics, and Physics Graduate Conference, University of Western Ontario (Canada), May 20-21, 2012.
    (f) The 9th Workshop on Logic and Engineering of Natural Language Semantics (LENLS9), Miyazaki University (Japan), November 30 – December 1, 2012.

30. Conditionals and Actions: A Pragmatic Argument for Adams' Logic of Indicative Conditionals

    (a) 5th CSLI Workshop on Logic, Rationality, and Intelligent Interaction, Stanford University (USA), May 28- 29, 2016.
    (b) Workshop in Formal Epistemology, National University of Singapore (Singapore), November 17-18, 2014.
    (c) 11th Annual Formal Epistemology Workshop, University of Southern California, May 19-21, 2014.
    (d) Taiwan Metaphysics Colloquium, National Taiwan University (Taipei), October 3, 2013.
    (e) The 8th Barcelona Workshop on Conditionals, University of Barcelona (Spain), June 26-28, 2013.

31. Inductive Knowledge without Safety

(a) 2017 Taiwan Philosophical Logic Colloquium: Workshop on Williamson's Philosophy, National Taiwan University (Taipei, Taiwan), October 6-7, 2016.

32. A Tale of Two Epistemologies (with Alan Hájk)

    (a) Annual Res Philosophica Conference: Bridging Formal and Traditional Epistemology, Saint Louis University (St. Louis, Missouri, USA), April 8-9, 2016.

33. Acceptance as an Apt, Structural Correspondence between Credences and Beliefs (with Kevin T. Kelly)

    (a) 2016 Central Division Meeting of the American Philosophical Association (Chicago USA), March 4, 2016.

34. Counterfactuals, Graphical Models, and Indeterminism

    (a) Determinism, Probability, and Conditionals Workshop, the Australian National University (Australia), July 3, 2015.

35. Nonfactualism and Ockham's Razor in Natural Language Semantics

    (a) Departmental Colloquium, University of Bristol (UK), April 29, 2015.
    (b) Departmental Colloquium, Monash University (Australia), April 24, 2015.
    (c) Departmental Colloquium, Lingnan University (Hong Kong), March 23, 2015.

36. Why I Believe that I Have Qualitative Beliefs

    (a) Departmental Colloquium, University of Bristol (UK), May 11, 2015.
    (b) Departmental Colloquium, University of Southern California (USA), February 22, 2014.
    (c) Departmental Colloquium, UC Davis (USA), February 17, 2014.

37. Expect to Be Almost Fully Surprised by the Exam

    (a) Taiwan Philosophy Association Annual Meeting, Soochow University (Taiwan), November 1-2, 2014.
    (b) 2014 Annual Australasian Association of Philosophy Conference, Australian National University (Australia), July 7-11, 2014.

38. What If Meanings Are Not Truth Conditions?

    (a) Departmental Colloquium, Australian National University (Australia), December 11, 2014.
    (b) 2014 Taiwan Philosophical Logic Colloquium, National Taiwan University (Taiwan), October 24-25, 2014.

39. Bridging the Logic-Based and Probability-Based Approaches to Artificial Intelligence

    (a) IEAS Conference on Reason and Rationality, Academia Sinica (Taiwan), August 15, 2014.

40. Toward a Compositional Acceptability-Conditional Semantics for Expressivism

    (a) Deontic Modality Workshop, University of Southern California (USA), May 20-22, 2013.

41. Believing and Acting in An Uncertain World

    (a) The 5th Formal Epistemology Festival, University of Toronto (Canada), June 3-5, 2013.
    (b) The 5th Workshop on the Frontiers of Rationality and Decision conference, University of Groningen (the Netherlands), August 29-31, 2012.

42. Foundations of Everyday Practical Reasoning

   (a) The 10th Conference on Logic and the Foundations of Game and Decision Theory (LOFT 2012), University of Sevilla (Spain), June 18-20, 2012.

43. Propositional Reasoning that Tracks Probabilistic Reasoning

   (a) Round Table on Acceptance, the Munich Center for Mathematical Philosophy (Germany), February 3, 2012.
   (b) Formal Epistemology Workshop, University of Southern California, May 19-21, 2011.
   (c) Logic and Methodology Workshop 2011, Stanford University, May 14-15, 2011.
   (d) Symposium on Uncertain Acceptance, Carnegie Mellon University, March 16, 2011.

44. Uncertain Acceptance and Contextual Dependence on Questions

   (a) The Logical Structure of Correlated Information Change Monthly Seminar, Institute for Logic, Language, and Computation, University of Amsterdam (the Netherlands), January 24, 2012.
   (b) The Center for Formal Epistemology Workshop (In Search of Answers: The Guiding Role of Questions in Discourse and Epistemology), Carnegie Mellon University, November 5, 2011.

45. Judgment Aggregation: A Geometric Impossibility Proof

   (a) The Episteme Annual Conference on Social Epistemology, Carnegie Mellon University, June 24-26, 2011.

46. A New Probabilistic Semantics for Conditional Logic

   (a) University of Western Ontario Graduate Conference (Canada), May 7-8, 2010.

Presentations Delivered by Co-authors

47. "Data-mining as Question-mining", [delivered by Kevin Kelly]

   ○ Formal Epistemology Workshop, Carnegie Mellon University, November 5, 2011.

48. "Propositional Reasoning that Tracks Probabilistic Reasoning" [delivered by Kevin Kelly]

   ○ Heinrich-Heine-University Duesseldorf (Germany), November 10, 2011.
   ○ The Logical Structure of Correlated Information Change Monthly Seminar, Institute for Logic, Language, and Computation, University of Amsterdam (the Netherlands), January 24, 2012.
   ○ The Philosophical Society, Lund University (Sweden), April 19, 2012.

49. "Simplicity and its Connection with Empirical Truth", [delivered by Kevin Kelly]

   ○ Explanation, Causality and Unification Workshop, Heinrich-Heine-University Duesseldorf (Germany), November 11-12, 2011.
   ○ Interrogative Model of Inquiry Workshop (France), January 30-31, 2012.
   ○ (tutorial) the Munich Center for Mathematical Philosophy (Germany), February 7-8, 2012.
   ○ University of Copenhagen (Denmark), April 24, 2012.
   ○ Workshop on the Foundations of Ockham's Razor, Carnegie Mellon University, June 22-24, 2012.

50. "Qualitative Reasoning that Tracks Jeffrey Conditioning", [delivered by Kevin Kelly]

- The Sixth Workshop on Combining Probability and Logic (PROGIC 2013), Munich, September 17-18, 2013.

Teaching Experience

Primary Instructor (at UC Davis)
- Modal Logic   Fall 2017
- Logic, Probability, and Artificial Intelligence   Fall 2017
- Seminar in Epistemology (on the Problem of Induction)   Spring 2017
- Logic, Probability, and Artificial Intelligence   Fall 2016
- Theory of Knowledge   Fall 2016
- Formal Epistemology   Winter 2016
- Philosophy of Language Workshop (on Non-Truth-Conditional Semantics)   Fall 2015
- Philosophy of Logic and Mathematics   Fall 2015

Instructor (at Australian National University)
- Topics in Philosophy of Science: Causation, Scientific Confirmation, and Scientific Models (12 Hours)   July 2014
- Graduate Seminar on Formal Methods in Philosophy (12 Hours)   June 2015

Primary Instructor (at Carnegie Mellon University)
- Logic and Proofs   Spring 2013
- Logic and Proofs   Fall 2012

Teaching Assistant (at Carnegie Mellon University)
- Rational Choice   Fall 2010
- Introduction to Political Philosophy   Spring 2011
- Introduction of Philosophy   Fall 2011
- Introduction to Philosophy of Language   Spring 2012

Fellowships / Awards

PhD Fellowship, University of Pittsburgh (Declined)   2010-2015

Service

Member of the Following Committee:
- Asian and Asian-American Philosophers and Philosophies Committee, American Philosophical Association (APA)   July 2016 - June 2019

Member of the Following Conference Program Committees:
- Logic, Rationality, and Interaction: 5th International Workshop, LORI 2015
- The Joint conference of the 3rd Asian Workshop on Philosophical Logic and the 3rd Taiwan Philosophical Logic Colloquium 2016
- Formal Epistemology Workshop 2016

○ Formal Epistemology Workshop 2017

○ Formal Epistemology Workshop 2018

○ 4th Asian Workshop on Philosophical Logic, 2018

○ 2014 Annual Meeting of the Australasian Association of Philosophy

Organizer of:

○ Panel on "Diversity, Minority, and Inequality: Challenges for Asian and Asian-American Philosophers—and Everyone Else", Annual Meeting the American Philosophy Association, Central Division,
Denver   February 21, 2019

○ Colloquia Series at the department of Philosophy,
UC Davis,   August 2015 - September 2017

○ Probability Reading Group at the School of Philosophy,
the Australian National University   August 2014 - July 2015

○ Weekly Thursday Colloquia Series at the School of Philosophy,
the Australian National University   August 2014 - June 2015

Refereeing in This Period of Review:

○ British Journal for the Philosophy of Science

○ Philosophy of Science

○ Erkenntnis

Refereeing Prior to This Period of Review:

○ Mind

○ Philosophy of Science

○ Synthese

○ Philosophers' Imprint

○ Ergo

○ Erkenntnis

○ Review of Symbolic Logic

○ Proceedings of the 14th Conference on Theoretical Aspects of Rationality and Knowledge (TARK 2013)

○ Formal Epistemology Workshop 2016, 2017

○ The Joint conference of the 3rd Asian Workshop on Philosophical Logic and the 3rd Taiwan Philosophical Logic Colloquium 2016

References

○ Kevin Kelly (Carnegie Mellon University)
`kk3n@andrew.cmu.edu`

○ Alan Hájek (Australian National University)
`hajek.alan@gmail.com`

- Christopher Hitchcock (California Institute of Technology)
  `cricky@caltech.edu`

- Clark Glymour (Carnegie Mellon University)
  `cg09@andrew.cmu.edu`

- David Makinson (London School of Economics)
  `david.makinson@gmail.com`

- Hannes Leitgeb (Munich Center for Mathematical Philosophy)
  `hannes.leitgeb@lrz.uni-muenchen.de`