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University of Alabama in Huntsville
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AOS Philosophy of Science (esp. Representation and Explanation),
Asian Philosophy (esp. Chinese Buddhism)

AOC Philosophy of Technology, Epistemology, Logic, Ethics

APPOINTMENTS Associate Professor of Philosophy, University of Alabama in Huntsville, 2013-
Course Consultant, The Saylor Foundation, 2012-2013
Assistant Professor of Philosophy, University of Alabama in Huntsville, 2007-2013
Lecturer in Philosophy, The Ohio State University, 2007
Instructor in Philosophy, The Ohio State University, 2004-2006

EDUCATION **The Ohio State University**, Columbus, Ohio USA

Ph.D., Philosophy, December 2006

M.A., Philosophy, June 2004

Saint Francis College, Loretto, Pennsylvania USA

B.A., *magna cum laude*, Philosophy with minors in Math and History, June 2000

ARTICLES IN
JOURNALS

“Inference to the More Robust Explanation,” *British Journal for the Philosophy of Science*, *forthcoming*.

“A Principles-based Model of Ethical Considerations in Military Decision Making” (with Gregory S. Reed, Mikel D. Petty, Anthony W. Morris, John P. Ballenger, and Harry S. Delugach), *Journal of Defense Modeling and Simulation*, *forthcoming*.

“An Atheistic Argument from Ugliness” (with Scott Aikin), *European Journal for Philosophy of Religion* 7.1 (2015): 209-217.

“Bowtie Structures, Pathway Diagrams, and Topological Explanation,” *Erkenntnis* 79.5 (2014): 1135-1555.

“Don’t Blame the Idealizations,” *Journal for the General Philosophy of Science* 44 (2013): 85-100.

“Toward Modeling and Automating Ethical Decision Making: Design, Implementation, Limitations, and Responsibilities” (with Gregory S. Reed), *Topoi* 32 (2013): 237-250.

- “Secondary Confessions, Expert Testimony, and Unreliable Testimony” (with Jeffrey S. Neuschatz, Miranda L. Wilkinson, Charles A. Goodsell, Stacy A. Wetmore, and Deah S. Quinlivan), *Journal of Police and Criminal Psychology* 27:2 (2012):179-192.
- “Diagrams as Locality Aids for Explanation and Model Construction in Cell Biology” (with Olaf Wolkenhauer), *Biology and Philosophy* 27:5 (2012), 705-721.
- “An Arrovian Impossibility Theorem for the Epistemology of Disagreement,” *Logos & Episteme* 3:1 (2012), 97-115.
- “Civility, Sincerity, and Ambiguity,” *Alabama Humanities Review* 1:1 (2011). (Prize-winning essay for Whetstone-Seaman Faculty Development Award.)
- “Idealizing, Abstracting, and Semantic Dispositionalism” (with Adam Podlaskowski), *European Journal of Philosophy* 20:1 (2010), 166-178.
- “Mereological Heuristics for Huayan Buddhism,” *Philosophy East and West* 60:3 (July 2010), 355-368.
- “Nyaya-Vaisesika Inherence, Buddhist Reduction, and Huayan Total Power,” *Journal of Chinese Philosophy* 37:s1 (June 2010), 215-230.
- “Fazang’s Total Power Mereology: An Interpretive Analytic Reconstruction,” *Asian Philosophy* 19:3 (November 2009), 199-211.
- “General Relativity and the Standard Model: Why Evidence for One Does Not Disconfirm the Other,” *Studies in History and Philosophy of Modern Physics* 40:2 (May 2009), 124-132.
- “Is Theology Respectable as Metaphysics?,” *Zygon: Journal of Religion & Science* 43:3 (September 2008), 579-592. (with a reply by Gregory Peterson)
- “Evidence and Falsification: Challenges to Gregory Peterson,” *Zygon: Journal of Religion & Science* 43:3 (September 2008), 599-604. (invited)
- “Is All Abstracting Idealizing?,” *The Reasoner* 2:4 (April 2008), 4-5.
- “The Logic of *Soku* in the Kyoto School,” *Philosophy East and West* 54:3 (July 2004), 302-321.

ARTICLES IN
EDITED
VOLUMES

- “Extracting Phenomena, Integrating Explanations, and Styling Representations: Some Frontiers for Philosophizing about Biology,” in *Philosophy of Systems Biology: 5 Questions*, ed. Sara Green (Automatic Press/VIP): 138-148, *forthcoming*. (invited)
- “Metaphysics of Identity in Fazang’s *Huayan Wujiao Zhang*: The Inexhaustible Freedom of Dependent Origination,” in *Dao Companion to Chinese Buddhist Philosophy*, eds. Sandra A. Wawrytko and Youru Wang (Springer), *forthcoming*. (invited)
- “Harmonizing Chinese Buddhist Ethics,” in *Oxford Handbook of Chinese Philosophy*, ed. Justin Tiwald (Oxford University Press), *forthcoming*. (invited)
- “Buddhist Reductionism and Emptiness in Huayan Perspective,” in *The Moon Points Back*, eds. Koji Tanaka, Yasuo Deguchi, Jay L. Garfield, and Graham Priest (Oxford University Press, 2015): 128-149. (invited)

“Unreliable Informant Testimony” (with Jeffrey S. Neuschatz, Stacy A. Wetmore, and Joy McClung), in *Conviction of the Innocent: Lessons from Psychological Research*, ed. Brian Cutler (Washington, D.C.: APA Press, 2012): 213-238.

BOOK
REVIEWS

Review of *Error and Inference: Recent Exchanges on Experimental Reasoning, Reliability, and the Objectivity and Rationality of Science*, Deborah G. Mayo and Aris Spanos (Cambridge University Press), *Analysis* 71:2 (2011), 406-408.

Review of *Truth: Studies of a Robust Presence*, ed. Kurt Pritzl (Catholic University of America Press), *Notre Dame Philosophical Reviews*, 8 April 2010.

TEXTBOOKS

A Practical Introduction to Ethical Theory, National Social Science Press, 2011 (124,000 words). ISBN: 978-1-936306-35-0.

PRESENTATIONS

“Unified and Disunified Explanations of Parameter Robustness,” Society for Philosophy of Science in Practice, Aarhus, Denmark, June 2015.

Invited Panelist on “Asian Models of Teaching and Learning,” Nature and Environment in China and Japan, Ohio State University, April 2015.

Invited Participant, NSF / SERC / INCOSE Workshop on the Theory of Systems Engineering, Alexandria, VA, November 2014.

“How Diagrams Fertilize Discovery,” Alabama Philosophical Society, October 2014.

“How Diagrams Fertilize Discovery,” Center for Philosophy of Science, University of Pittsburgh, September 2014 (invited).

“A Principles-based Model of Ethical Considerations in Military Decision Making,” with Gregory S. Reed, Mikel D. Petty, Anthony W. Morris, John P. Ballenger, and Harry S. Delugach (presentation by Reed), AlaSim International 2014, May 2014.

“Reconstructing Fazang’s Identities,” Alabama Philosophical Society, October 2013.

“What Bowties Teach Us about Biological Explanation and HIV,” University of Nebraska at Omaha, January 2013 (invited).

“Hermeneutics and Causation in Huayan Buddhism,” University of Nebraska at Omaha, January 2013 (invited).

“Limitations of Mechanistic Explanation,” Alabama Philosophical Society, October 2012.

“Civility, Sincerity, and Ambiguity,” Humanists of North Alabama, Huntsville, AL, April 2012 (invited).

“Diagrams as Locality Aids for Functional Explanation,” Tennessee Philosophical Association, November 2011.

“Encouraging Civility,” ONE Huntsville and Interfaith Mission Service, Huntsville, AL, October 2011 (invited).

“Emergence and Causation in the Tissue Organization Field Theory of Cancer,” Alabama Philosophical Society, September 2011.

“Explaining Phase Transitions and Irreversibility,” U.S. Army RDECOM, RDMR-WSS, Redstone Arsenal, September 2011 (invited).

“Arrovian Impossibility and the Epistemology of Disagreement,” Omaha Epistemology Workshop, University of Nebraska at Omaha, May 2011.

“Civility, Sincerity, and Ambiguity,” Daring to Defend Our Rights: A Discussion on Civility in Alabama Public Life, Montgomery, March 2011 (invited).

“Metaphysical Foundations and Huayan Buddhism,” Association of Chinese Philosophers in America in conjunction with the American Philosophical Association Eastern Division, Boston, December 2010.

“Don’t Blame the Idealizations,” University of Rostock, October 2010 (invited).

“Approximate Truth and Self-Inconsistent Theories,” Presidential Address, Alabama Philosophical Society, September 2010.

“What Makes Idealized Hypotheses False, and What Doesn’t,” Models and Simulations 4, University of Toronto, May 2010.

“Fazang’s Total Power Mereology,” International Society for Buddhist Philosophy in conjunction with the American Philosophical Association Eastern Division, New York, December 2009.

“Cartwright’s Capacities, Coulomb’s Law, and Hydrogen Bonds,” Alabama Philosophical Society, October 2009.

“Approximation and Inconsistency,” Society for Exact Philosophy, University of Alberta, May 2009.

“Scientific Realism, Approximate Truth, and Some Twists on the Diachronic Conjunction Argument,” Tennessee Philosophical Association, November 2008.

“Against Pluralistic and Inexact Ontologies,” Philosophy of Science Association Biennial Meeting, Pittsburgh, November 2008.

“A Problem with Ontological Pluralism,” Alabama Philosophical Society, September 2008.

“Belief Revision and Coherence without Foundations”, American Philosophical Association Central Division, Chicago, April 2008.

“Why It Is Impossible to Justify Belief in the Existence of Changeless Duration”, Tennessee Philosophical Association, Vanderbilt University, October 2007.

“Belief Revision and Coherence without Foundations”, Alabama Philosophical Society, September 2007.

“Resolving the Bayesian Problem of Idealization”, American Philosophical Association Central Division, Chicago, April 2007.

“Resolving the Bayesian Problem of Idealization”, Confirmation, Induction and Science Conference, London School of Economics, March 2007.

“Idealized Explanations as Ontological Guides”, Indiana Philosophical Association Spring Meeting, Marian College, April 2006.

PRESENTATIONS
AT UAH

- “Reorienting Technology,” Honors Forum, January 2015.
- Second Year Experience Speaker (College of Liberal Arts), “Liberal Arts, and the Advantages of Being Useless,” October 2012. [31,000+ views on academia.edu]
- “Lessons from Studying Asian Philosophy,” Philosopher’s Guild, September 2012.
- “What Bowties Teach Us about Biological Explanation and HIV,” Honors Forum, September 2012.
- “Doing Public Philosophy: Civility and Belonging,” Honors Forum, January 2012.
- “Civility, Sincerity, and Ambiguity,” Special University Presentation, April 2011.
- “What Is Philosophy?” Discovery Floor in Central Campus Residence Hall, November 2010.
- “Utilitarian Angst,” Students for Free Thought, Logic, and Reason, November 2010.
- “Confucianism and Human Rights,” Honors Forum, September 2010.
- Panelist, Opening of *Dora and the V-2: Slave Labor in the Space Age*, February 2010.
- “Experimental Ethics and Trolley Cases,” Honors Forum, January 2010.
- “Buddhism: A Godless Religion,” Students for Free Thought, Logic, and Reason, March 2009.
- “Is Theology Respectable as Metaphysics?” Honors Forum, January 2009.
- “Philosophical Issues about Idealizations in the Sciences,” Physics Department (January 2009) and RELACS (September 2008).
- “What Is Research in Philosophy?” Honors Forum, January 2008.
- “Confucianism and Human Rights,” GS200, October 2008, October 2009, March 2010, November 2010, March 2011, November 2011.
- “Ethical Issues in Genetic Medicine,” Biology, June 2009 and June 2010.
- “An Overview of the IRB: The Purpose and the Process,” PY607 (September 2009), EH501 (October 2010), CM370 (September 2011).

GRANTS

- UAH OVPR Research Travel Grant, \$6000, Summer 2011
- UAH Research Minigrant, \$7547, Summer 2010
- UAH Humanities Center Library Enhancement Grant, \$2988, January 2010
- UAH Research Minigrant, \$6933, Summer 2009
- UAH Humanities Center Library Enhancement Grant, \$5260, January 2009
- Alabama Humanities Foundation Small Grant, \$2000, for UAH Philosophy Forum Speaker Series, August 2008
- UAH Humanities Center Library Enhancement Grant, \$2829, December 2007

TEACHING
EXPERIENCE

University of Alabama in Huntsville, Huntsville, Alabama, USA

Philosophy 101: Introduction to Philosophy
Philosophy 102 [202]: Introduction to Ethics
Philosophy 150: Technology, Science, and Human Values
Philosophy 201: Introduction to Logic
Philosophy 301: Ancient Philosophy
Philosophy 302: Modern Philosophy
Philosophy 311: Philosophy of Science
Philosophy 314: Asian Philosophy (formerly Philosophy of Religion)
Philosophy 314: Philosophy of Religion
Philosophy 320: Symbolic Logic
Philosophy 395: Junior Research Seminar
Philosophy 397: Internship (course creator)
Honors 399: Reading Aristotle and Newton
Philosophy 403: Advanced Moral Theory - Care Ethics

The Saylor Foundation, Washington, D.C., USA

Philosophy 202: Philosophy of Science (course development)
Philosophy 102: Logic and Critical Thinking (course re-design and development)
Philosophy 304: Existentialism (course peer review)

The Ohio State University, Columbus, Ohio USA

As Lecturer

Philosophy 150: Introduction to Logic and Critical Thinking
Philosophy 215: Asian Philosophy

As Instructor

Philosophy 101: Introduction to Philosophy
Philosophy 150: Introduction to Logic and Critical Thinking
Philosophy 215: Asian Philosophy
Philosophy 367: Contemporary Social and Moral Problems in the United States

As Facilitator for University-Wide Teaching Assistant Orientation (2005 & 2006)

Facilitating Classroom Discussion
Preparing for the First Day
Teaching in the Independent Course

SERVICE

University-Level

Coordinator, Program in Science, Technology, and Society, UAH, September 2013 -
Humanities Center Advisory Committee, UAH, January 2015 -
Faculty Advisor and Founder, Phi Sigma Tau Honor Society, Alabama Epsilon Chapter UAH, 2013 -
Judge, Research Horizons Day, UAH, March 2015
Dean of College of Liberal Arts Search Committee, UAH, 2015
Dean of College of Science Search Committee, UAH, 2013-2014
Liberal Arts Colloquium Committee (RELACS), UAH, 2008-2013 (Chair, 2010-2013)
Chair, Institutional Review Board, UAH, November 2008-December 2012
President, Phi Kappa Phi Honor Society, UAH, 2013-2014
Vice President, Phi Kappa Phi Honor Society, UAH, 2012-2013
Treasurer, Phi Kappa Phi Honor Society, UAH, 2010-2012
Faculty Advisor, Vietnamese Student Association, UAH, 2010- 2012
External Reappointment Dossier reviewer, Departments of English, History, and Sociology, UAH, February 2014
External Tenure Dossier Reviewer, Department of Psychology and Department of Marketing, UAH, October 2013
Moderator, "Is the Christian Faith Reasonable?" Ratio Christi and UAH Non-Theists, February 2013
CIO Search Committee, UAH, 2012
Arthur C. Clarke Center Proposal Development Committee, UAH, 2011
Steering Committee, Program in Science, Technology, and Society, UAH, 2008 & 2011
CLA Recruitment Representative, UAH, Nashville, January 2011
CLA Website Redesign Committee, UAH, Summer 2009
Chaperone, ACE fieldtrip to Six Flags in Atlanta, UAH, September 2009
Moderator, "Your Genes, Your Medicine," UAH Biology Club Colloquium, March 2009
On-Line Chat for Admitted Students, UAH, January 2009
Philosophy Forum Co-Coordinator, UAH, 2013: Brian Ribeiro, "Four Arguments for Religious Skepticism" and Ted Poston, "Skeptical Theism Within Reason"
Philosophy Forum Coordinator, UAH, 2008: Michael Weisberg, "Deploying Highly Idealized Models" and Derek Turner, "What Is Evolutionary Contingency?"

Student-Level

Honors Capstone Director, Young Nicole Westrope, "Classical Indian Thought as Philosophy," UAH, Spring 2015

Committee Member, Ph.D. in Modeling and Simulation, Gregory Reed, "A Quantitative Model of Relative Ethical Violation for Use in Military Decision-Making," UAH, defended October 2013

Observer, M.S.E. in Electrical and Computer Engineering, Zeyu Pan, "Metal Nanoridge Surface Plasmon Waveguides," UAH, defended April 2013

Advisor, Rachel King, "Refining the Search in Scientific Research: Organization through Cell Cycle Diagrams," Research and Creative Experience for Undergraduates, UAH, Summer 2012

Advisor, Thomas Watts, "Nagarjuna: The Original Dialethist or Just Misunderstood?" Research and Creative Experience for Undergraduates, UAH, Summer 2010

Advisor, Cedona Watts, "Actual vs. Apparent Content: An Analysis of Mendel's Laws of Segregation," Research and Creative Experience for Undergraduates, UAH, Summer 2009

Profession-Level

Leaf Editor, PhilPapers.org, "The Huayan School of Chinese Buddhism," 2011-

Editorial Board and Reviewer, *Religions* (ISSN 2077-1444), 2010-2015

Organizing Committee, Diagrams as Vehicles of Scientific Reasoning, University of Pittsburgh, April 2015.

Applied Ethics Technology Advisory Board, Wadsworth Publishing, 2011-2012

President, Alabama Philosophical Society, 2009-2010

Vice President, Alabama Philosophical Society, 2008-2009

Secretary-Treasurer, Alabama Philosophical Society, 2007-2008

Reviewer, *Erkenntnis*, *Synthese*, *Journal of Strain Analysis for Engineering Design*, *Philosophy East and West*, *Science & Education*, *Philosophical Psychology*, *Philosophia*, The MIT Press, Alabama Academy of Science, Canadian Philosophical Association, McGraw Hill, Southern Society for Philosophy and Psychology, *Contemporary Philosophy*

Technical Engineer, *Contemporary Philosophy*, 2000-2005

Community-Level

Community Editor, Academia.edu, July 2015-

Selection Committee for 2012/2013 Whetstone-Seaman Faculty Development Award, Alabama Humanities Foundation, 2013

Grants Review Committee, Alabama Humanities Foundation, 2011-2013

Debate Contest Judge, Milestones Debate Club, January 2010

Debate Contest Judge, National Christian Forensics and Communications Association, March 2008

HONORS AND AWARDS

Visiting Fellowship, Center for Philosophy of Science, University of Pittsburgh, 2014

Whetstone-Seaman Faculty Development Award, Alabama Humanities Foundation, 2011

Phi Kappa Phi, University of Alabama in Huntsville Chapter, 2010

William H. Fink Prize, Best Philosophy Graduate Student Paper, OSU, 2002

MEMBERSHIPS

Alabama Philosophical Society, 2007-

Society for Asian and Comparative Philosophy, 2007-

American Philosophical Association, 1998-2013

Philosophy of Science Association, 2005-2014

Ohio Philosophical Association, 2005-2007

REFERENCES

Robert Batterman, Department of Philosophy, University of Pittsburgh, 1028-F Cathedral of Learning, Pittsburgh, PA 15260; rbatterm@pitt.edu

William Bechtel, Department of Philosophy, University of California San Diego, 9500 Gilman Drive, LaJolla, CA 92093; bill@mechanism.ucsd.edu

JeeLoo Liu, Department of Philosophy, California State University Fullerton, Humanities Building H311-I, Fullerton, CA 92834; jeelooliu@gmail.com

Graham Priest, Boyce Gibson Professor Emeritus, University of Melbourne; g.priest@unimelb.edu.au

Olaf Wolkenhauer, Chair in Systems Biology and Bioinformatics, Department of Computer Science, University of Rostock, Ulmenstrasse 69, 18051 Rostock, Germany; olaf.wolkenhauer@uni-rostock.de

William Wilkerson, Dean, Honors College, University of Alabama in Huntsville, (former Chair, Department of Philosophy), 301 Sparkman Drive, Huntsville, AL 35899; wilkerw@uah.edu