

## Anthony F. Peressini

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Department of Philosophy  
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### Areas of Expertise

**Specialization** Philosophy of Science, Psychology, Consciousness, Mathematics.  
**Competence** Philosophy of Mind, Probability, Economics.  
**Outside Areas** Mathematics: Numerical/Functional Analysis, Statistics,  
Computer Programming: C, C++, R, Java, Pascal, Python, BASIC, FORTRAN.

### Appointments Held

2017-pres **Professor**, Marquette University, Milwaukee  
2001-2017 **Associate Professor**, Marquette University, Milwaukee  
2012-2013 **Visiting Associate Professor**, Berlin School of Mind and Brain, Berlin, Germany  
2005-2012 **Director**, University Honors Program, Marquette University, Milwaukee  
2001-2005 **Co-Director**, University Honors Program, Marquette University, Milwaukee  
1994-2001 **Assistant Professor**, Marquette University, Milwaukee  
1989-1993 **Teaching/Research Assistant**, Philosophy, University of Wisconsin-Madison  
1989-1992 **Lead Programmer**, Center for Health Systems Research & Analysis, U. W-Madison  
1988-1989 **Programmer**, Center for Health Systems Research & Analysis, U. W-Madison  
1988-1988 **Numerical Analyst**, PC Scientific, Arden Hills, MN  
1986-1988 **Teaching Assistant**, Mathematics, University of Wisconsin-Madison  
1981-1986 **Computer Programmer**, Educational Research Inc., Helena, MT

### Education

1994 **PhD** Philosophy, University of Wisconsin-Madison  
1991 **MA** Philosophy, University of Wisconsin-Madison  
1988 **MS** Mathematics, University of Wisconsin-Madison  
1986 **BS** Mathematics/Computer Science, Montana State University, Bozeman

### Publications (single author)

2018	Peressini, A. F. (2018a). Causation, Probability, and the Continuity Bind. <i>British Journal for the Philosophy of Science</i> , 69(3):881–909, doi:10.1093/bjps/axw030.
	Peressini, A. F. (2018b). There Is Nothing It Is Like to See Red: Holism and Subjective Experience. <i>Synthese</i> , 195(10):4637–4666, doi:10.1007/s11229-017-1425-9.
2016	Peressini, A. F. (2016). Imprecise Probability and Chance. <i>Erkenntnis</i> , 81(3):561–586, doi:10.1007/s10670-015-9755-9.

- 2014 Peressini, A. F. (2014). Blurring Two Conceptions of Subjective Experience: Folk Versus Philosophical Phenomenality. *Philosophical Psychology*, 27(6):862–889, doi:10.1080/09515089.2013.793150.
- 2013 Peressini, A. F. (2013). Consciousness as Integrated Information: A Provisional Philosophical Critique. *Journal of Consciousness Studies*, 20(1):180–206.
- 2010 Peressini, A. F. (2010). Numerical Analysis and Its (Invisible?) Role in Mathematical Application. In Kerkhove, B. V., Vuyst, J. D., and Bendegem, J. P. V., editors, *Philosophical Perspectives on Mathematical Practice*, pages 331–349. College Pub., London.
- 2008 Peressini, A. F. (2008). Confirmational Holism and its Mathematical (W)Holes. *Studies in History and Philosophy of Science Part A*, 39(1):102–111.
- 2003 Peressini, A. F. (2003a). Critical Studies/Book Reviews: The indispensibility of mathematics. *Philosophia Mathematica*, 11(2):208–223, doi:10.1093/philmat/11.2.208.
- Peressini, A. F. (2003b). Proof, Reliability, and Mathematical Knowledge. *Theoria*, 69(3):211–232.
- 1999 Peressini, A. F. (1999a). Applying Pure Mathematics. *Philosophy of Science*, 66(3):S1–S13.
- Peressini, A. F. (1999b). Confirming Mathematical Theories: An Ontologically Agnostic Stance. *Synthese*, 118(2):257–277.
- 1998 Peressini, A. F. (1998). Naturalism, Evolution, and Self-Defeat. *International Journal for Philosophy of Religion*, 44(1):41–51.
- 1997 Peressini, A. F. (1997a). Cumulative Versus Noncumulative Ramified Types. *Notre Dame Journal of Formal Logic*, 38(3):385–397.
- Peressini, A. F. (1997b). Psychological Explanation and Behavior Broadly Conceived. *Behavior and Philosophy*, 25(2):137–159.
- Peressini, A. F. (1997c). Troubles with Indispensability: Applying Pure Mathematics in Physical Theory. *Philosophia Mathematica*, 5(3):210–227, doi:https://academic.oup.com/philmat/article/5/3/210/1439056.
- 1993 Peressini, A. F. (1993). Generalizing Evolutionary Altruism. *Philosophy of Science*, 60(4):568–586.

### Publications (joint author)

- 2019 Guastello, S. J., Corroero, A. N., Marra, D. E., and Peressini, A. F. (2019). Physiological synchronization and subjective workload in a competitive emergency response task. *Nonlinear Dynamics, Psychology, and Life Sciences*. (in press).

- 2018 Guastello, S. J., Marra, D. E., Peressini, A. F., Castro, J., and Gomez, M. (2018). Autonomic synchronization, team coordination, participation, and performance. *Nonlinear Dynamics, Psychology, and Life Sciences*, 22(3):359–394.
- 2017 Guastello, S. J. and Peressini, A. F. (2017b). The relative influence of drivers and empaths on team synchronization. *Society for Chaos Theory in Psychology & Life Sciences Newsletter*, 24(3):8–11.
- Guastello, S. J., Marra, D. E., Castro, J., Equi, M., and Peressini, A. F. (2017). Turn taking, team synchronization, and non-stationarity in physiological time series. *Nonlinear Dynamics, Psychology, and Life Sciences*, 21(3):319–334.
- Guastello, S. J. and Peressini, A. F. (2017a). Development of a Synchronization Coefficient for Biosocial Interactions in Groups and Teams. *Small Group Research*, 48(1):3–33, doi:10.1177/1046496416675225.
- 2016 Peressini, A. F. and Guastello, S. J. (2016). Group synchronization coefficient calculation: A short user's guide to SyncCalc v1.0. Software, Retrieved September 15, 2016 from <http://academic.mu.edu/peressini/synccalc/synccalc.htm>.
- Guastello, S. J. and Peressini, A. F. (2016). Determining Optimization-Risk Profiles for Individual Decision Makers. In Guastello, S. J., editor, *Cognitive Workload and Fatigue in Financial Decision Making*, pages 109–120. Springer, Tokyo.
- Guastello, S. J., Marra, D. E., Perna, C., Castro, J., Gomez, M., and Peressini, A. F. (2016). Physiological synchronization in emergency response teams: Subjective workload, drivers and empaths. *Nonlinear Dynamics, Psychology and Life Sciences*, 20(2):223–270.
- 2014 Peressini, A. F. and Guastello, S. J. (2014). Orbital decomposition: A short user's guide to ORBDE v2.4. Software, Retrieved May 1, 2014 from <http://www.societyforchaostheory.org/resources/>, Menu 4 (fourth item) or from <http://academic.mu.edu/peressini/orbde/orbde.htm>.
- 2011 Guastello, S. J., Peressini, A. F., and Bond, R. W. J. (2011). Orbital decomposition for ill-behaved event sequences: transients and superordinate structures. *Nonlinear Dynamics, Psychology and Life Sciences*, 15(4):465–476.
- 2010 Peressini, A. F. and Guastello, S. J. (2010). Orbital decomposition: A short user's guide to ORBDE v1.0. Software, <http://www.societyforchaostheory.org/resources/>.
- 2007 Peressini, A. F. and Peressini, D. D. (2007). Philosophy of mathematics and mathematics education. In van Kerkhove, B. and van Bendegem, J., editors, *Perspectives On Mathematical Practices*, volume 5 of *Logic, Epistemology, and the Unity of Science*, pages 175–189. Springer Netherlands, doi:10.1007/1-4020-5034-8\_10.
- 1995 Boberg, E. W., Gustafson, D. H., Hawkins, R. P., Chan, C.-L., Bricker, E., Pingree, S., Berhe, H., and Peressini, A. F. (1995). Development, acceptance, and use patterns of a computer-based education and social support system for people living with AIDS/HIV infection. *Computers in Human Behavior*, 11(2):289–311, doi:10.1016/0747-5632(94)00037-I.

## Presentations (selected)

- Paper Presented:** “Autonomic Synchronization under Three Task Conditions and its Impact on Team Performance,” with Stephen J. Guastello and Lucas Mirabito. Society for Chaos Theory in Psychology & Life Sciences 8th International Nonlinear Science Conference, Coimbra, Portugal, March 28–30, 2019.
- Paper Presented:** “Physiological Synchronization under Three Task Conditions and its Impact on Team Performance,” with Stephen J. Guastello and Lucas Mirabito. Society for Chaos Theory in Psychology & Life Sciences 28th Annual International Conference, Raleigh, NC, August 2–4, 2018.
- Paper Presented:** “Physiological Synchronization and the Communication of Emotion,” with Stephen J. Guastello. Montreal Cognitive Science Day: Université du Québec à Montréal (Montreal, Canada), March 29, 2018.
- Paper Presented:** “Against the Philosophical-Scientific Racial Project of Biologizing Race.” ICSP 2017: 19<sup>th</sup> International Conference on Society and Philosophy, Berlin, Germany, May 21–22, 2017.
- Paper Presented:** “Development and Validation of a Group Synchronization Coefficient,” with Stephen J. Guastello, David E. Marra, Julian Castro, and Maribeth Gomez. 26<sup>th</sup> Annual International Conference of the Society for Chaos Theory in Psychology & Life Sciences, Salt Lake City, July 29–31, 2016.
- Paper Presented:** “Imprecise Probability and the Temporal Evolution of Chance.” *Imprecise Probabilities in Statistics and Philosophy* Conference, München Center for Mathematical Philosophy, Ludwig-Maximilians-Universität, München Germany, June 28, 2014.
- Paper Presented:** “Computation of Orbital Decomposition with Multiple Categorical Variables,” with Stephen J. Guastello, David Pincus, and Robert W. Bond Jr. American Psychological Society 26th Annual Convention, San Francisco, May 25, 2014.
- Paper Presented:** “Reduction, Qualia, and ‘Something It Is Like’ Consciousness.” Berlin School of Mind and Brain, Philosophy of Mind Seminar Series, Humboldt University, Berlin, February 5, 2013.
- Paper Presented:** “Quining Qualia—Empirical Style.” Philosophy of Dennett Graduate Seminar, Humboldt Universität, Berlin, October, 2012.
- Paper Presented:** “Against the Reduction of Phenomenological Consciousness to Qualia.” Eastern American Philosophical Association Meeting, Atlanta, GA, December 2012.
- Paper Presented:** “Integrated Information: Functional Consciousness or Biological Qualia?” *Toward a Science of Consciousness 2012*, Tucson, Arizona, April 2012.
- Paper Presented:** “Naturalism in Philosophy.” *Methods in Philosophy* Workshop, Marquette University, November, 2011.
- Paper Presented:** “Dis-Integrating Intuitions About Qualia and Consciousness.” MERG Experimental Philosophy Conference, CUNY/NYU, March 2011.
- Poster Presented:** “Neurodynamics and Conscious Intentional Action.” *Toward a Science of Consciousness 2010*, Tucson, Arizona, April 2010.
- Discussant:** Pitt-Paris II Conference Workshop, “Emergence and Reduction in the Sciences,” Center for Philosophy of Science, University of Pittsburgh, December 2009.

**Poster Presented:** “Naturalizing Phenomenology: Lessons from Physics.” *Toward a Science of Consciousness 2008*, Tucson, Arizona, April 2008.

**Paper Presented:** “Invisible Mathematics: Numerical Analysis and its Role in Mathematical Application.” Perspectives on Mathematical Practice Conference, Brussels, March 2007.

**Paper Presented:** “Branching Out: Moving from Contemplative Practice Courses to a Curricular Requirement,” with Heather Hathaway at Contemplative Curriculum Development Summer Workshop, Smith College, August 2006.

**Paper Presented:** “How True Must Our Thoughts Be?” Marquette University Philosophy Department Colloquium, Fall 2006.

**Paper Presented:** “Confirmational Holism and Its Mathematical (w)Holes.” University of Wisconsin-Milwaukee Philosophy Department Colloquium, 2000.

**Paper Presented:** “Applying Pure Mathematics.” Philosophy of Science Association Biennial Meeting, October 1998.

### Honors, Award, & Grants (selected)

**NSF (Social Psychology) Research Grant Proposal** for “Toward a Refined Group Synchronization Measure,” with Stephen Guastello, **pending: \$ 836,799**, January, 2019.

**DOD Basic Science Research Grant Proposal** for “Leadership Emergence and Group Synchronization: A Refined Metric and Process Theory,” with Stephen Guastello, **pending: \$ 454,198**, February, 2018.

**NSF (Social Psychology) Research Grant Proposal** for “Toward a Refined Group Synchronization Measure,” with Stephen Guastello, **unfunded**, January, 2018.

**Summer Faculty Fellowship and Regular Research Grant** for “Extending Nonlinear Symbolic Dynamic Analysis via Orbital Decomposition to Take fMRI Analysis to the Next Level,” Marquette University, **funded**, (2016).

**DOD Basic Science Research Grant Proposal** for “Group Workload, Physiological Synchronization, Resilience, and Leadership Emergence,” with Stephen Guastello, **unfunded**, (2016).

**Strategic Innovation Fund Award** for “Engendering Dignity in Philosophy,” Marquette University, with Drew Dumaine, Theresa Tobin, and Marisola Xhelili, **funded: \$ 71,600**, May 2016.

**NASA Research Grant Proposal** for “Physiological synchronization and team performance: Metrics for monitoring behavioral health,” with Stephen Guastello, **unfunded**, (2015).

**Greater Milwaukee Foundation Grant Proposal** for “Engendering Dignity in Philosophy” (Community Building and Education Program), with Drew Dumaine, Theresa Tobin, and Marisola Xhelili, **unfunded**, (December 2015).

**NIH Research Grant Proposal** for “Orbital Decomposition Analysis for Extracting Patterns of Activation with fMRI Data,” with Stephen Guastello and Kristy Nielson, **unfunded**, (2015).

**APA Grant Proposal** for “Engendering Dignity in Philosophy” (Diversity and Inclusiveness Program), with Drew Dumaine, Theresa Tobin, and Marisola Xhelili, **unfunded**, (June 2015).

**Center for Peacemaking (Marquette U.) Course Development Award** for The Social Human Marx and Catholic Social Teaching, (2014-15).

**Berlin School of Mind and Brain, Visiting Scholar** Humboldt University, Berlin (2012-2013).

**ACLS Contemplative Program Development Fellowship Grant** for Contemplative Curriculum Development, co-authored with Heather Hathaway and Michael Vater, (2006).

**American Council of Learned Societies (ACLS) Grant** to develop an interdisciplinary course on philosophy and literature, co-authored with Heather Hathaway in English Department, (1999).

**Summer Faculty Fellowship (Marquette University)** for project entitled “A Study of the Process of Applying Pure Mathematical Theories in Science,” (1998).

**Awarded Mellon Grant** for “Origins of the Universe” team-taught interdisciplinary (Physics, History, Philosophy, Theology) course offered Spring, 1998. Co-authored with John Karkheck, Jamie Schaefer, and Ron Zupko, (1997).

## Courses Taught

- Graduate** Philosophy of Science, Mind, Consciousness, Evolutionary Biology; Problems in Metaphysics Seminar: Qualia; Philosophy of Mathematics; Seminar: Value, Economics, & Philosophy of Social Science.
- Undergraduate** Philosophy Science, Knowledge, Mathematics, Mind, Human Nature; Logic; Metaphysics; Marx and Marxism; Metaphysics of Love; Theory of Ethics; Foundations in Philosophy; 20<sup>th</sup> Century Anglo-American Philosophy; Seminar: Origins of the Universe; Research Methods in Philosophy; Seminar: Meaning and Identity—A Literary and Philosophical Inquiry; Seminar: Consciousness, Causation and Emergence.
- Honors** Narrating Freedom: Gender and Mass Incarceration; Authority and Authorship; Evolution and the Human Person; Philosophy and Science Fiction; Contemplating Mind and Soul; Merton, Mindfulness, and Mysticism; Privilege and Practice; Exploring Spirituality and Mindfulness at the Margins; Job and Justice; Marx, Nature, Materialism, and Value.

## Dissertations Directed

**Kristin Schaupp** “Conceiving Mind: A critique of Descartes’ Dualism and Contemporary Immaterialist Views of Consciousness” (2004).

**Matt Pierlott** “The Principle of Alternate Possibilities: Finding Freedom after Frankfurt” (2006).

**Earl Cookson** “Naturalized Panpsychism” (2012).

## Professional Activities

**Refereeing** (\* = multiple manuscripts reviewed):

*British Journal for the Philosophy of Science, Analysis, Journal of Consciousness Studies\*, Philosophia Mathematica\*, Philosophical Psychology, Synthese\*, Nonlinear Dynamics, Psychology and Life Sciences\*, Phenomenology and the Cognitive Sciences, Logique et Analyse, Routledge Press\*, MIT Press, Oxford University Press.*

## Service (selected)

### **Director, University Honors Program, 2001–12 (co-director, 2001–5)**

*General Responsibilities:* Recruiting and advising for university wide program of approximately 320–60 students; choosing scheduling and recruiting instructors for honors seminars and classes; supervising Assistant Director.

#### *Innovations and Accomplishments*

- Developed an entirely new mission, curriculum, admission procedures, and profile.
- Developed and instituted contemplative curriculum as part of honors curriculum that has received national attention and funding (ACLS Grants).
- Designed and implemented recruitment processes that substantially increased number and quality of applications.
- Created and implemented an Honors Living and Learning Community.
- Developed and taught Honors Research Seminar in concert with Honors Undergraduate Research Opportunity.

### **Director of Academic Services, Philosophy, 2015–2017**

*General Responsibilities:* Assigning/coordinating department major advisors; website maintenance and design; marketing PR for undergraduate courses/majors; course selection and scheduling; coordinating graduate student teaching assessment; processing undergraduate course requests and waivers.

### **Executive Committee, Philosophy**

Seven terms: 1997–99, 2000–2, 2006–8, 2009–11, 2011–12, 2013–15, 2017–19.

### **Graduate Committee, Philosophy**

One term: 2014–16.

### **Undergraduate Committee, Philosophy**

Four terms: 1995–97, 2006–8, 2010–12, 2013–present.

### **Department Hiring Committees, Philosophy**

Four hires: 2003–4, 2005–6, 2011–12, 2014–15.

### **Dissertation Qualifying Exam Committee, Philosophy**

Ten students: 2013–18.

### **Senior Experience Ad Hoc Committee, College**

One term: 2003–4.

### **Rhodes Scholarship Advisor, University**

Four years: 2006–10.

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