Marquette University
Department of Philosophy
Phone: (414) 288-5683

Marquette Hall 423
Milwaukee, WI 53233

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Areas of Expertise

Specialization Philosophy of Science, Psychology, Consciousness, Mathematics.

Competence Philosophy of Mind, Probability, Economics.

Outside Areas Mathematics: Data Analytics, Numerical/Functional Analysis, Statistics.

Computer Programming: C, C++, R, Java, Pascal, Python, BASIC, FORTRAN.

Appointments Held

2017-pres 2001-2017	Professor, Marquette University, Milwaukee		
1994-2001	Associate Professor, Marquette University, Milwaukee Assistant Professor, Marquette University, Milwaukee		
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2020-pres	Associate Chair, Department of Philosophy, 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		
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

2022	Certificate	Data Science, Marquette University, Milwaukee	
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)

2021	Peressini, A. F. (2021). Against the Philosophical Project of 'Biologizing' Race. <i>Metaphilosophy</i> , 52(5):593–615, doi:10.1111/meta.12511.
2020	Peressini, A. F. (2020). Critical Studies/Book Reviews: Otávio Bueno and Steven French. <i>Applying Mathematics: Immersion, Inference, Interpretation. Philosophia Mathematica</i> , 28(1):116–127, doi:10.1093/philmat/nkz015.

2018	Peressini, A. F. (2018a). Causation, Probability, and the Continuity Bind. <i>British Journal</i>	
	for the Philosophy of Science, 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. *Synthese*, 195(10):4637–4666, doi:10.1007/s11229-017-1425-9.
- 2016 Peressini, A. F. (2016). Imprecise Probability and Chance. *Erkenntnis*, 81(3):561–586, doi:10.1007/s10670-015-9755-9.
- 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.
- Peressini, A. F. (2013). Consciousness as Integrated Information: A Provisional Philosophical Critique. *Journal of Consciousness Studies*, 20(1):180–206.
- 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.
- Peressini, A. F. (2008). Confirmational Holism and its Mathematical (W)Holes. *Studies in History and Philosophy of Science Part A*, 39(1):102–111.
- Peressini, A. F. (2003a). Critical Studies/Book Reviews: Mark Colyvan. *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.
- 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.
- Peressini, A. F. (1993). Generalizing Evolutionary Altruism. *Philosophy of Science*, 60(4):568–586.

Publications (joint author)

2023	Guastello, S. J. and Peressini, A. F. (2023). Quantifying synchronization in groups with
	three or more members using synccalc: The driver-empath model of group dynamics. <i>Group</i>
	Dynamics: Theory, Research, and Practice, doi:https://doi.org/10.1037/gdn0000199. Advance
	online publication.

- Guastello, S. J., Bednarczyk, C., Hagan, R., Johnson, C., Marscisek, L., McGuigan, L., and Peressini, A. F. (2022). Team situation awareness, cohesion, and autonomic synchrony. *Human Factors*, doi:10.1177/00187208221118301. First published online August 16, 2022.
- Guastello, S. J. and Peressini, A. F. (2021b). The relative influence of drivers and empaths on team synchronization. *Nonlinear Dynamics, Psychology, and Life Sciences*, 25(3):357–382.
 - Guastello, S. J. and Peressini, A. F. (2021a). A comparison of four dyadic synchronization models. *Nonlinear Dynamics, Psychology, and Life Sciences*, 25(1):19–39.
- Guastello, S. J., Witty, B., Johnson, C., and Peressini, A. F. (2020c). Autonomic synchronization, leadership emergence, and the roles of drivers and empaths. *Nonlinear Dynamics, Psychology, and Life Sciences*, 24:451–473.
 - Guastello, S. J., Palmer, C., Marra, D. E., and Peressini, A. F. (2020b). The effect of cooperation and competition dynamics on autonomic synchrony in teams. In Viol, K., Schöller, H., and Aichhorn, W., editors, *Self-Organization: A Paradigm for the Human Sciences?*, pages 303–318. Springer, Weisbaden, Germany.
 - Guastello, S. J., Mirabito, L., and Peressini, A. F. (2020a). Autonomic synchronization under three task conditions and its impact on team performance. *Nonlinear Dynamics, Psychology, and Life Sciences*, 24:79–104.
- Guastello, S. J., Palmer, C., Marra, D. E., and Peressini, A. F. (2019b). The effect of cooperation and competition dynamics on autonomic synchrony in teams. *Society for Chaos Theory in Psychology & Life Sciences Newletter*, 27(1):9–11.
 - Guastello, S. J., Correro, A. N., Marra, D. E., and Peressini, A. F. (2019a). Physiological synchronization and subjective workload in a competitive emergency response task. *Nonlinear Dynamics, Psychology, and Life Sciences*, 23(3):347–376.
- 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.
- 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 Newletter*, 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). De	velopment of a Synchronization Coeffi-
cient for Biosocial Interactions in Groups and Te	eams. Small Group Research, 48(1):3-33,
doi:10.1177/1046496416675225.	

- 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.
- 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.
- 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.
- 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/.
- 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.
- 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:** "Large Scale Databases for Nonlinear Phenomena: Sync Coefficient and Variations"," with Stephen J. Guastello. Society for Chaos Theory in Psychology & Life Sciences 31st Annual International Conference, Online, July 22–24, 2021.
- **Paper Presented:** "Racialized Disequilibriums and Marx's Working Day, Today." Marquette University Philosophy Department Colloquium, April, 2021.

Paper Presented: "Autonomic Synchronization, Leadership Emergence, Drivers and Empaths," with Stephen J. Guastello, Brittany Witty, and Camerhon Johnson. Society for Chaos Theory in Psychology & Life Sciences 30th Annual International Conference, Toronto, Canada, July 22–24, 2020.

- **Paper Presented:** "A Comparison of Four Dyadic Synchronization Models," with Stephen J. Guastello. Society for Chaos Theory in Psychology & Life Sciences 30th Annual International Conference, Toronto, Canada, July 22–24, 2020.
- **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: 19th 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. 26th 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, **unfunded**, (2019).
- **DOD Basic Science Research Grant Proposal** for "Leadership Emergence and Group Synchronization: A Refined Metric and Process Theory," with Stephen Guastello, **unfunded**, (2018).
- **NSF (Social Psychology) Research Grant Proposal** for "Toward a Refined Group Synchronization Measure," with Stephen Guastello, **unfunded**, (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; 20th Century Anglo-American Philosophy;

Senior CORE Course: Faith and Justice:

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)

Associate Chair, Department of Philosophy, 2020-present

General Responsibilities: Undergraduate course selection, staffing, and scheduling for approximately 100 undergraduate sections per semester; scheduling for approximately 10 graduate section per semester; transfer credit equivalencies (TES system); monitoring and adjusting course section availability during registration; handling requests to enroll in full sections; assisting with webpage maintenance.

Innovations and Accomplishments

- Developed and implemented web-based teaching preference system.
- Developed and implemented web-based urgent request system.
- Developed and implemented a system to contact and recruit outstanding first-time philosophy students.

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, 2017-18.

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.

Humanities Area Tenure and Promotion Committee, University

Years: 2017, 2021

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