

- CONTACT INFORMATION Department of Philosophy, University of Denver
Sturm Hall 264, 2000 East Asbury Ave. Denver, CO, 80208
Email: marco.nathan@du.edu
Office phone: +1-303-871-2063
- SPECIALIZATION Philosophy of Science
Philosophy of Biology
Philosophy of Neuroscience, Psychology, and Cognitive Science
- COMPETENCE Philosophy of Mind, Philosophy of Language, Philosophy of Economics
Metaphysics, Epistemology, Logic
- ACADEMIC APPOINTMENTS University of Denver, CO
2012-present, Assistant Professor, Department of Philosophy
- EDUCATION Columbia University, NY
2012, Ph.D., Philosophy
Dissertation: *Causation & Explanation in Molecular Developmental Biology*
Committee: P. Kitcher, A. Varzi, L. Franklin-Hall, S. Firestein, J. Collins
2010 M.Phil., Philosophy
2008 M.A., Philosophy
- University of Milan, Italy
2006 Laurea Magistrale (M.A.), Philosophical Sciences, *summa cum laude*
Dissertation: ‘The Logic of Agency’
2004 Laurea Triennale (B.A.), Philosophy, *summa cum laude*
Dissertation: ‘Aspects of the Category of Sets’
- PUBLICATIONS ‘Unificatory Explanation’
British Journal for the Philosophy of Science, 68(1), pp. 163-86, 2017
- ‘Counterfactual Reasoning in Molecular Medicine’
In G. Boniolo & M.J. Nathan (eds.) *Philosophy of Molecular Medicine: Foundational Issues in Theory and Practice*, pp. 192-214, Routledge, 2016.
- ‘The Future of Cognitive Neuroscience? Reverse Inference In Focus’
Philosophy Compass (with G. Del Pinal, forthcoming)
- ‘The Nature of Species in Evolution,’ in S. Scheiner & D. Mindell (eds.)
The Theory of Evolution, University of Chicago Press
(with J. Cracraft, forthcoming)

- ‘Two Kinds of Reverse Inference in Cognitive Neuroscience,’ in Leefman & Hildt (eds.) *The Human Sciences after the Decade of the Brain*, Elsevier, pp. 121-39 (with G. Del Pinal)
- ‘Can there Be Science without Philosophy?’
Nephrology Dialysis Transplantation, 31, pp. 1977-81, 2016
(with C. Zoccali & D. Brancaccio)
- ‘Causality at the Dawn of the ‘Omics’ Era in Medicine and Nephrology’
Nephrology Dialysis Transplantation, 31, pp. 1381-85, 2016
(with C. Zoccali & D. Brancaccio)
- ‘Redundant Causality and Robustness’
Minnesota Studies in the Philosophy of Science (forthcoming)
- ‘Mapping the Mind: Bridge Laws and the Psycho-Neural Interface’
Synthese, 193(2), pp. 637-657, 2016 (with G. Del Pinal),
- ‘The Idealization of Causation in Mechanistic Explanation’
Philosophy of Science, 82, pp. 761-74, 2015 (with A.C. Love)
- ‘A Simulacrum Account of Dispositional Properties’
Noûs, 49 (2), pp. 253-74, 2015
- ‘Should a Scientist Be Elegant?’
Hektoen International, 7(1), 2015 (with D. Brancaccio)
- ‘Molecular Ecosystems’
Biology and Philosophy, 29(1), pp. 101-22, 2014
- ‘Causation by Concentration’
British Journal for the Philosophy of Science, 55(2), pp. 191-212, 2014
- ‘Development and Natural Kinds: Some Lessons from Biology’
Synthese, 191, pp. 539-56, 2014 (with A. Borghini)
- ‘There and Up Again. On the Uses and Misuses of Neuroimaging in Psychology’
Cognitive Neuropsychology, 30(4), pp. 233-52, 2013 (with G. Del Pinal)
- ‘The Importance of Being Elegant. A Discussion of Elegance in Nephrology and Biomedical Science’ (with D. Brancaccio)
Nephrology Dialysis Transplantation, 28, pp. 1385-88, 2013
- ‘Ectopic Breast Cancer: Case Report and Review of the Literature’
(with E. Francone, F. Murelli, M.S. Bruno, E. Traverso and D. Friedman)
Aesthetic Plastic Surgery, 37 (4), pp. 746-49, 2013
- ‘The Varieties of Molecular Explanation’
Philosophy of Science, 79 (2) pp. 233-54, 2012

EDITED
VOLUMES

Philosophy of Molecular Medicine: Foundational Issues in Research and Practice, New York: Routledge, 2016, co-edited with G. Boniolo

- VISITING APPOINTMENTS
- 2015, Department of Philosophy, University of Macau, China
Visiting Professor (Winter Interterm)
 - 2015, Department of Foundations of Science, University of Urbino, Italy
Visiting Professor (Spring Semester)
 - 2013–14, School of Molecular Medicine, European Institute of Oncology, Italy
Regular Visiting Professor/Visiting Fellow
 - 2009-12, American Museum of Natural History, New York
Visiting Research Scholar
 - 2010, Laboratory for Stem Cell Biology and Pharmacology of
Neurodegenerative Diseases, University of Milan, Italy. Visiting Scholar
- FELLOWSHIPS, GRANTS, AND AWARDS
- 2017, Faculty Internationalization Grant, University of Denver
 - 2016, Anna Maglione-Sie Faculty Travel Grant, University of Denver
 - 2016, 2014, Marsico Social Sciences Visiting Scholars
Grant intended to Support Visiting Scholars University of Denver
 - 2013, Graduate School of Arts and Sciences Distinguished Dissertation Award
Biannual selection of one dissertation in the humanities to represent Columbia
University at the Consortium of Graduate Schools ProQuest Distinguished
Dissertation Awards
 - 2011-2012, Harriet Zuckerman Dissertation Fellowship in the History
Philosophy and Sociology of Science, Andrew W. Mellon Foundation
Awarded annually to one doctoral student at Columbia University
 - 2006-2010, Graduate School of Arts and Sciences Fellowship
Department of Philosophy, Columbia University
 - 2010, Brocher Foundation Scholarship for Junior Participants
Advanced Seminar in the Philosophy of the Life Sciences, Geneva, CH
 - 2009, 2008, Graduate School of Arts and Sciences Summer Research Fellowship
Department of Philosophy, Columbia University
 - 2005, Goethe-Institut Scholarship for German Language Studies
Munich, Germany
- SELECTED PRESENTATIONS
(* = REFEREED)
- 2017, September 15, Title: TBA, Mississippi State University
 - 2017, May 8, ‘The Mind-Body Problem, Version 3.0,’ University of Milan
 - 2017, May 3, ‘Emergence in Complex Biological Systems’ University of Lyon

2017, May 2, ‘Diagnosis and Prognosis: Philosophical Reflections’
University of Bordeaux

2017, April 28, ‘Causality and Precision Medicine’ University of Nantes

2017, April 27, ‘Some Puzzles About Biomarkers’ University of Tours

*2017, March 25, ‘Pluralism is the Answer: What is the Question?’ Species in
the Age of Discordance Conference, Salk Lake City, UT

2016, December 13, ‘Science in a Black Box’ University of Bergamo

*2016, November 5, ‘An Ecological Model of Disability’
Philosophy of Science Association, Atlanta, GA (with J. Brown)

*2016, September 8, ‘Of Molecules and Minions: Story-Telling in Science’
All-Campus Lecture, University of Denver

*2016, Sep. 6, ‘Mob Rules: A Causal Model of Aggregative Causal Phenomena’
Italian Society for Analytic Philosophy, Pistoia, Italy (with A. Borghini)

2016, July 20, ‘Unifying Emergence Across the Sciences’ University of Bergamo

2016, May 27, ‘What Are the Scope, Aims, and Goals of Economics?’
Department of Economics, Colloquium Series, University of Denver

2016, April 19, ‘Remarks on Artificial Intelligence’ From Computers to
Consciousness, Denver Museum of Nature and Science

2016, April 11, ‘What Is a Disability?’ University of Denver (with J.M. Brown)

2015, Dec. 11, ‘Three Grades of Rational Involvement’
Rationality and its Rivals Conference, University of Macau

2015, Dec. 6, ‘Fiction Science,’ *The Roots of Fiction: Possibilities and Imagi-*
nations Workshop, University of Macau

*2015, Oct. 17, ‘Emergent Complexity in Neural Networks: A Pragmatist
Approach,’ Phil. of Science Conference, University of Colorado, Boulder

2015, July 9, ‘Counterfactuals, Counterparts, and Counterworlds in Scientific
Research,’ Philosophy of Science Workshop, University of Alghero, Italy

2015, July 9, ‘The Causal Influence of Redundant Causes,’ Philosophy of
Science Workshop, University of Alghero, Italy (with A. Borghini)

2015, July 2, ‘How to Use Neuroscience to Advance Psychology,’
University of Urbino, Italy

2015, June 30, ‘Behavioral Economics and Neuroeconomics: A Philosophical
Perspective,’ University of Urbino, Italy

2015, June 25, ‘Issues in Human Nature: Between Science and Philosophy,’
University of Urbino, Italy

- 2015, June 24, 'Redundant Causality in the Social Sciences,'
University of Urbino, Italy (with A. Borghini)
- 2015, June 22, 'Is Biodiversity a Truly Interdisciplinary Field?'
Evaluating Biodiversity Workshop, University of Urbino, Italy
- *2014, Nov. 6, 'Bridge Laws and the Psycho-Neural Interface'
Philosophy of Science Association, Chicago, IL (with G. Del Pinal)
- *2014, Nov. 6, 'The Idealization of Causation in Mechanistic Explanation'
Philosophy of Science Association Meeting, Chicago, IL (with A.C. Love)
- *2014, Oct. 10, 'Associative Bridge Laws: Reverse Inference and the
Neuroimaging of Higher Cognition' University of Colorado Boulder, CO
- 2014, Sep. 3, 'On the Role of Counterfactual Reasoning in Biology' Plenary
Lecture, Philosophy of the Life Sciences Seminar, KLI, Austria
- *2014, June 19, 'Redundant Causation in the Social Sciences,' Italian Society
for Logic and Philosophy of Science, Rome, Italy (with A. Borghini)
- *2014, May 31, 'The Idealization of Causation in Mechanistic Explanation'
POBAM, University of Wisconsin-Madison, WI (with A.C. Love)
- 2014, April 25, 'Scientific Elegance as a Theoretical Virtue: A Kantian
Perspective,' University of Denver, CO (with J. Surber)
- 2014, February 28, 'Mapping the Mind'
NRG Seminar Series, Department of Psychology, University of Denver, CO
- 2014, January 9, 'Do We Still Need Philosophy in the 21st Century?'
Faculty Lecture Series, University of Denver, CO
- 2013, December 17, 'A Non-Causal Account of Causal Explanation'
Colloquium Series, Spanish Open University (UNED), Madrid, Spain
- 2013, December 6: 'Biological Counterfactuals,' Workshop on the
Metaphysics of Biology, University of Geneva, Switzerland
- *2013, Dec. 4, 'Redundant Causation in the Social Sciences' Philosophy of
Science Conference, University of Lisbon, Portugal (with A. Borghini)
- *2013, July 8 'Can Ecology Inform Molecular Biology?'
ISHPSSB Conference, Montpellier, France
- 2013, July 4: 'An Epistemic Model of Scientific Integration'
Neurophilosophy Colloquium, University of Milan, Italy
- 2013, June 24: 'Philosophical Issues at the Interface of Neuroscience and
Psychology' European School of Molecular Medicine, Italy (with Del Pinal)
- *2013, May 29: 'Biological Unification without Theoretical Reduction'
Postgraduate Conference in Logic and Philosophy of Science, Urbino, Italy

- 2013, March 27: ‘Causation and Causal Explanation: Which is More Fundamental?’ APA Pacific Division, San Francisco, CA
- 2013, March 11: ‘Quantitative Causality in Biology: A Philosophical Perspective,’ Department of Biological Sciences, University of Denver, CO
- *2013, Feb. 9: ‘From Biological Unification to Biological Interdisciplinarity’ Mississippi Philosophical Association Annual Meeting, Starkville, MS
- *2012, June 1: ‘Molecular Ecosystems’
Congrès de la Société de Philosophie des Sciences, Montréal, QB
- 2012, May 4: ‘Redundant Causality and Causal Processes,’
MCPS Workshop, University of Minnesota, Minneapolis, MN
- 2011, September 16: ‘The Science of Aesthetics and the Aesthetics of Science’
Vitamin D Receptors Meeting, Barcelona, Spain (With D. Brancaccio)
- *2011, Sep. 2: ‘Reframing Molecular Reductionism’
European Conference of Analytic Philosophy, Milan, Italy
- 2011, August 20: ‘Causal Interactions in Complex Biological Systems,’ ESF
Philosophy of Systems Biology Workshop, Aarhus University, Denmark
- *2011, June 17: ‘Lewisian Themes in Molecular Biology’
Conference on David Lewis, University of Urbino, Italy
- 2011, May 11: ‘A Simulacrum Approach to Dispositional Properties,’ Philoso-
phy of Biology Workshop, University of Pennsylvania, Philadelphia, PA
- 2011, May 7: ‘Irreducible Redundant Causation in Molecular Biology’
MCPS Workshop, University of Minnesota, Minneapolis, MN
- *2011, May 13: ‘Identity and Development,’ Metaphysics and Philosophy of
Science Conference, University of Toronto, ON (with A. Borghini)
- *2011, April 1: ‘Non-Reductive Theory Unification in the Biological Sciences’
CUNY Philosophy Graduate Conference, New York, NY
- 2011, February 10, ‘Identity and Development,’ Department of Philosophy,
College of the Holy Cross, Worcester, MA (with A. Borghini)
- *2010, Dec. 16: ‘Diachronic Identity in Biology and Philosophy’ Italian Society
for Logic and Philosophy of Science, Bergamo, Italy (With A. Borghini)
- 2010, October 23: ‘Fields Made Molecular,’ Philosophy of Biology Workshop,
University of Pennsylvania, Philadelphia, PA
- *2010, Sep. 25: ‘Diachronic Identity in Biology and Philosophy’
Italian Society for Analytic Philosophy, Padua, Italy (With A. Borghini)
- 2010, September 15: ‘Philosophy and Molecular Biology: An Interdisciplinary
Perspective,’ Department of Biology, University of Milan, Italy

- *2010, May 2: ‘The Role of Distributions in Scientific Explanation’
Princeton-Rutgers Graduate Philosophy Conference, New Brunswick, NJ
- *2010, March 19: ‘The Role of Distributions in Scientific Explanation’
Pitt-CMU Graduate Student Philosophy Conference, Pittsburgh, PA
- 2009, March 21: ‘Is Public Thought Necessary for Intentional Explanation?’
Southwest Graduate Conference in Philosophy, Tempe, AZ
- *2009, March 14: ‘Is Public Thought Necessary for Intentional Explanation?’
The Rocky Mountain Philosophy Graduate Conference, Boulder, CO

TEACHING

University of Denver, Assistant Professor

2018, 2016, 2014: *Philosophy of Economics*

2017, 2015: *Philosophy of Psychology*

2017, 2016, 2015, 2014: *Human Nature*

2017, 2016, 2015, 2014, 2013: *Philosophy of Mind*

2017, 2015, 2013, 2012: *Philosophy of Science*

2015: *Proseminar in Philosophy*

2014, 2013: *Philosophy of Biology*

2018, 2017, 2016, 2014, *Symbolic Logic*

2013, 2012: *Nature and Limits of Human Knowledge*

European School of Molecular Medicine, Visiting Assistant Professor

2014: *Dispositions, Models, and Counterfactuals*

2013: *Causality in the Life Sciences*

2013: *Explanation in the Life Sciences*

Columbia University, Instructor with full teaching responsibilities

2010: *Philosophy of Science*

2008: *Elementary Logic*

Columbia University, Teaching Assistant

2010: *Philosophy of Science*, Prof. Jeffrey Helzner

2009: *Methods and Problems* Prof. John Collins

2009: *Metaphysics*, Prof. John Collins

2008: *Epistemology*, Prof. Jeffrey Helzner

2008, 2007: *Introduction to Symbolic Logic*, Prof. Helzner, Prof. Rothschild

2009-2012, Member of the Philosophy Outreach Program
Philosophy Department and Teachers College, Columbia University
Delivered introductory philosophy lectures in NYC high schools

2003-2006, Adjunct High School Teacher in History and Philosophy
Liceo Ginnasio Statale Cesare Beccaria, Milan, Italy

ADVISING

Emanuele Ratti (PhD student, European School of Molecular Medicine)
Doctoral Dissertation Co-Advisor

Rebecca Chabot (PhD Student, University of Denver-Iliff School of Theology)
Doctoral Dissertation Committee Member

Marina Logachev, (MA Student, Department of Economics, Univ. of Denver)
Dissertation Reader & External Committee Chair

Mete Ozcorekci, (MA Student, Department of Economics, Univ. of Denver)
Dissertation Reader & External Committee Chair

Ding Ning, (MA Student, Department of Economics, Univ. of Denver)
Dissertation Reader & External Committee Chair

Up Sira Nukulkit, (MA Student, Department of Economics, Univ. of Denver)
Dissertation Reader & External Committee Chair

ACADEMIC SERVICE

Refereed articles and manuscripts for: *Philosophy of Science*, *British Journal for the Philosophy of Science*, *Biology and Philosophy*, *Synthese*, *Studies in History and Philosophy of Biological and Biomedical Sciences*, *Philosophical Quarterly*, *The Journal of Philosophical Research*, *Studies in History and Philosophy of Science*, Routledge, Rowman and Littlefield, Bloomsbury Press, *European Journal for Philosophy of Science*, *Biological Theory*, *Philosophy & Theory in Biology*, *Research Foundation Flanders*, *Topoi*, *South African Journal of Philosophy*, *Saudi Journal of Biological Sciences*, *Journal of Philosophy Science and Law*, *European Journal of Pragmatism and American Philosophy*, *Isonomia*, *Aphex*

Anna Maglione-Sie Foundation Grant Committee Member
University of Denver (2017-present)

Marsico Fund Departmental Representative
University of Denver (2016-present)

University Libraries Departmental Representative
University of Denver (2012-present)

Conference Co-organizer
NYU-Columbia Graduate Student Conference in Philosophy (2007-2008)

PROFESSIONAL MEMBERSHIPS American Philosophical Association (APA)
Philosophy of Science Association (PSA)
Société de Philosophie des Sciences (SPS)
Società Italiana per la Filosofia Analitica (SIFA)

WORK EXPERIENCE 2004-2006, Editorial Assistant, *Edizioni IF*, Milan, Italy

LANGUAGES Fluent in Italian
Proficient in French, German (reading, speaking, and writing)
Proficient in Ancient Greek and Latin (reading)
Certification: Zertifikat Deutsch, 2006

REFERENCES Philip Kitcher
John Dewey Professor of Philosophy
Columbia University
+1-212-854-4884
psk16@columbia.edu

Achille C. Varzi
Professor of Philosophy
Columbia University
(212) 854-3531
av72@columbia.edu

Alan C. Love
Associate Professor of Philosophy
Director of the Minnesota Center for
Philosophy of Science
University of Minnesota
+1-612-625-4510
aclove@umn.edu

Stuart Firestein
Professor of Biological Sciences
Columbia University
+1-212-854-4531
sjf24@columbia.edu

Laura Franklin-Hall
Associate Professor of Philosophy
New York University
+1-212-995-4179
lrf217@nyu.edu

Giovanni Boniolo
Professor of Philosophy of Science
and Medical Humanities
University of Ferrara
+39-0532-455553
bnlgnn@unife.it

John D. Collins
Associate Professor of Philosophy
Columbia University
+1-212-854-3970
jdc9@columbia.edu

C. Kenneth Waters
Canada Research Chair in Logic
and Philosophy of Science
University of Calgary
+1-403-220-5989
ckwaters@ucalgary.ca

Joel L. Cracraft
Chair, Division of Vertebrate Zoology
Lamont Curator and Curator-in-Charge
Professor, R. Gilder Graduate School
American Museum of Natural History
+1-212-769-5633
jlc@amnh.org