

Silvia De Toffoli

Curriculum Vitae

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Areas of Specialization: Philosophy of Mathematics, Epistemology

Areas of Competence: Philosophy of Science

Academic Appointments

- 2025-pres. **Scuola Superiore Universitaria IUSS Pavia**, *Department of Humanities and Life Sciences, Linguistics and Philosophy Center*, Associate Professor of Philosophy
- 2022-2025 **Scuola Superiore Universitaria IUSS Pavia**, *Department of Humanities and Life Sciences, Linguistics and Philosophy Center*, Assistant Professor of Philosophy
- 2022 **Linköping University**, *Department of Culture and Society*, Assistant Professor of Philosophy and Wallenberg Academy Fellow
- 2019–2022 **Princeton University**, *Philosophy Department*, Postdoctoral Research Associate and Lecturer
- 2013–2014 **Montana State University**, *Department of Mathematical Sciences*, Research Scholar and Lecturer

Academic Affiliations

- 2022-pres. **Technical University of Berlin**, *Institute of History and Philosophy of Science, Technology, and Literature*, Department Affiliate
- 2022-pres. **Sphere Research Unit**, *CNRS, Paris*, Associated Researcher

Education

- 2014–2019 **Ph.D. in Philosophy**, Stanford University
Thesis: *Epistemic Roles of Mathematical Diagrams*, committee: Thomas Ryckman (supervisor), Michael Friedman, Krista Lawlor, Marcus Giaquinto.
Research visits: Columbia University (fall 2016), IHPST – Institute of History and Philosophy of Sciences and Technology, Paris (spring 2017), University of Pennsylvania (fall 2017), Goethe University Frankfurt (spring 2018).
- 2019 **Ph.D. Minor in Philosophy, Literature, and the Arts**, Stanford University
Advisor: R. Lanier Anderson.
- 2016 **M.A. in Philosophy**, GPA: 4/4, Stanford University
- 2009–2013 **Ph.D in Mathematics**, Technical University of Berlin

- Thesis: *Degrees of Essentiality for Secants of Knots*, Supervisor: John Sullivan.
- 2006–2009 **M.Sc. in Mathematics**, *Summa Cum Laude*, University of Bologna
As visiting student: University of Paris7, France (2007-2008).
- 2004–2006 **B.Sc. in Mathematics**, *Summa Cum Laude*, University of Bologna
As visiting student: University of Calgary, Canada (2004-2005).

Publications

Books

- under contract **How to Prove Things with Diagrams**, UK: University Press
- under contract **Human Epistemology of Mathematics**, *Elements Series*, Cambridge University Press

Articles and Book Chapters

- forth **Mathematical Justification without Proof**, in: *Self Knowledge and Knowledge A Priori*, Ed.s Giacomo Melis, Giovanni Merlo, and Crispin Wright, UK: Oxford University Press
- forth **The Epistemic Roles of Diagrams**, in: *Third Edition of the Blackwell Companion to Epistemology*, Ed.s Jonathan Dancy, Ernest Sosa, Matthias Steup, and Sosa Kurt Sylvan, Blackwell, Wiley
- forth **Visualization and Diagrams in Mathematics**, in: *Routledge Handbook of the History and Philosophy of Science*, Ed.s Flavia Padovani and Adam Tamas Tuboly, Routledge
- forth **The Philosophy of Mathematical Practice**, *Stanford Encyclopedia of Philosophy*, (with Paolo Mancosu)
- 2025 **What mathematical explanation need not be**, *Journal of Mathematical Behavior*, 79(101255), 1-12, (with Elijah Chudnoff)
- 2024 **PROOFS FOR A PRICE: Tomorrow's Ultra-Rigorous Mathematical Culture**, *Bulletin of the American Mathematical Society*, 61(3), 395-410
- 2024 **The Epistemological Subject(s) of Mathematics**, in: *The Handbook of the History and Philosophy of Mathematical Practice*, Ed. Bharath Sriraman, Switzerland: Springer, 2879-2904
- 2023 **Recalcitrant Disagreement in Mathematics: An “Endless and Depressing Controversy” in the History of Italian Algebraic Geometry**, *Global Philosophy*, 33:38, 1-29 (with Claudio Fontanari)
- 2023 **Who's Afraid of Mathematical Diagrams?**, *Philosophers' Imprint*, 23:1, 1-20
- 2022 **Objectivity and Rigor in Classical Italian Algebraic Geometry**, *Noesis*, No. 38, 195-212 (with Claudio Fontanari)

- 2022 **Intersubjective Propositional Justification**, in: *Propositional and Doxastic Justification: New Essays on Their Nature and Significance*, Eds. Paul Silva Jr. & Luis Oliveira, Routledge, 241-262
- 2022 **What Is Mathematical Rigor?**, *Aphex*, No. 25, 1-17 (with John Burgess)
- 2022 **What Are Mathematical Diagrams?**, *Synthese*, 200:86, 1-29
- 2021 **Groundwork for a Fallibilist Account of Mathematics**, *The Philosophical Quarterly*, Volume 7, Number 4, 823-844
- 2021 **Reconciling Rigor and Intuition**, *Erkenntnis*, Volume 86, 1783-1802
- 2019 **Leopardi: ‘Everything is Evil’**, in: *Evil—A History*, Ed. Andrew Chignell, UK: Oxford University Press, 350-357
- 2017 **‘Chasing’ The Diagram – The Use of Visualizations in Algebraic Reasoning**, *The Review of Symbolic Logic*, Volume 10, Number 1, 158-186
- 2016 **Envisioning Transformations – the Practice of Topology**, in: *Mathematical Cultures*, Ed. Brendan Larvor, Birkhäuser, 25-50, (with Valeria Giardino)
- 2015 **An Inquiry into the Practice of Proving in Low-Dimensional Topology**, in: *From Logic to Practice*, Eds. Gabriele Lolli, Marco Panza, Giorgio Venturi, Boston Studies in the Philosophy and History of Science, Volume 308, 315-336, (with Valeria Giardino)
- 2014 **Forms and Roles of Diagrams in Knot Theory**, *Erkenntnis*, Volume 79, 829-842, (with Valeria Giardino)

Editorial Work

- forth **Mathematics Education meets the Philosophy of Mathematical Practice**, *Special issue of The Journal of Mathematical Behavior*, with a co-authored introduction (with Yacin Hamami, Matthew Inglis, and Juan Pablo Mejía Ramos)
- 2018 **Tools of Reason: The Practice of Scientific Diagramming from Antiquity to the Present**, *Special issue of Endeavour*, with a co-authored introduction, Volume 42 (2-3), 49–59, (with Paula Findlen and Greg Priest)

Conference Proceedings

- 2018 **Fruitful Over-Determination in Knot Diagrams**, *Proceeding of Diagrams 2018, Lecture Notes in Computer Science*, 10871 LNAI, 807–809
- 2012 **Meta-Vermeer: A Topological Reinterpretation of a Masterpiece**, *Proceeding of Bridges 2012: Mathematics, Music, Art, Architecture, Culture*, 499-502, (with Yasuhiro Sakamoto)

Outreach

- forth. **Conversation with Helen Longino**, *Aphex*

- 2022 **Le certezze irraggiungibili della matematica** (“**The Unreacheable Certainties of Mathematics**”), *Archimede, La rivista per gli insegnanti e i cultori di matematiche pure e applicate*, No. 2, 60-66
- 2022 **Conversation with John P. Burgess**, *Aphex*, No. 25
- 2022 **I nodi dell’intelligenza artificiale** (“**The Knots of Artificial Intelligence**”), *Maddmaths! – Matematica Divulgazione Didattica*, 2 gennaio 2022
- 2017 **Numeri. Divagazioni, calcoli, giochi** (“**Numbers. Digressions, calculations, games**”), 2nd Edition, preface by Furio Honsell, (with Dario De Toffoli and Dario Zaccariotto), Edizioni Koala (1st Edition, 2008, Stampa Alternativa, Viterbo, introduction by Stefano Bartezzaghi)

Interviews

- 2022 **Anche la matematica è un’attività umana – intervista a Silvia De Toffoli**, *Il Tascabile*, intervista di Andrea Zanni, Jan. 3, 2022
- 2021 **Filosofia pratica della matematica, istruzioni per l’uso – intervista a Silvia De Toffoli**, *Maddmaths! – Matematica Divulgazione Didattica*, di Roberto Natalini, June 6, 2021

Grants & Awards

- July 2025 **Erasmus +**, *Technical University of Berlin*, (4,894€)
- 2025-2027 **FIS 2**, *IUSS Pavia*, (1,660,388€), Humanizing Mathematical Knowledge: Fallibility, Technology
- 2023-2025 **PRIN PNRR 2022**, *IUSS Pavia*, (239,238€), Scientific Disagreement and Its Impact on Society (co-PI with Filippo Ferrari)
- July 2024 **Erasmus +**, *Technical University of Berlin*, (3,590€)
- 2021 **Wallenberg Academy Fellowship**, *Linköping University, Swenden*, (> 1,000,000€)
- 2017-2019 **Ric Weiland Graduate Fellow in the Humanities & Sciences**, *Stanford University*
- 2017 **France-Stanford Visiting Student Researcher Fellowship**, *IHPST, Institute of History and Philosophy of Sciences and Technology, Paris*
- 2014-2019 **PhD scholarship**, *Stanford University*
- 2013 **Certificate of Distinction from the Berlin Mathematical School**, *for the Ph.D. thesis Degrees of essentiality for secants of knots*
- 2009-2013 **PhD scholarship**, *Berlin Mathematical School*

Teaching

Scuola Universitaria Superiore IUSS Pavia

Philosophy of Mathematics, *HuME PhD Program*, graduate seminar (with Mario Piazza and Andrea Sereni), spring 2023, spring 2024, spring 2025

Philosophy of Mathematics: Epistemology and Practice, Module of a Master course in Philosophy, spring 2024, spring 2025

Social Epistemology, Module of a Master course in Psychology, fall 2022, fall 2023, fall 2024

Visualizzazione, dimostrazioni e rigore: temi di filosofia della pratica matematica, upper division undergraduate class, fall 2022, fall 2023, spring 2025

Princeton University

2021-2022 **Mathematical Rigor Between Theory and Practice**, graduate seminar (with John Burgess)

2020-2021 **Theory of Knowledge**, upper division undergraduate class

2019-2020 **Philosophy of Mathematics**, upper division undergraduate class (with John Burgess)

Stanford University

2017-2018 **Philosophy of Mathematics**, upper division undergraduate class

2016-2017 **Philosophy and Literature**, undergraduate class (TA, Instructors: R. Lanier Anderson and Josh Landy)

2015-2016 **Epistemology**, undergraduate class (TA, Instructor: Eli Alshanetsky)

2015-2016 **Introduction to Philosophy of Science**, undergraduate class (TA, Instructor: Helen Longino)

Other Universities

2016-2017 **Introduction to Philosophy**, *City College New York*, undergraduate class

2013-2014 **Algebraic Topology**, *Montana State University*, graduate seminar

2010-2011 **Topology**, *Technical University of Berlin*, Master class (TA, Instructor: John Sullivan)

Events Organization

Main Organizer

June 2025 **Workshop: Inference in Pavia**, *IUSS Pavia*, (with Eli Chudnoff)

Aug. 2024 **Symposium of the Association for the Philosophy of Mathematical Practice**, in: *XXV World Congress of Philosophy*, Rome

June 2024 **Conference: International Conference of the Association for the Philosophy of Mathematical Practice (APMP)**, *Conference at IUSS Pavia*, (with Ludovica Conti, Daniele Molinini, Andrea Sereni, and Luca Zanetti)

May 2024 **Workshop: Disagreement in the Exact Sciences**, *IUSS Pavia*, (with Andrea Sereni, Guido Tana, and Luca Zanetti)

- May 2023 **Conference: Philosophies of Mathematics in Dialogue**, *Conference at Princeton University*, (with John Burgess)
- 2023-pres. **Organizer of the IUSS Philosophy Seminars: Epistemology and Mathematics Series**, *IUSS Pavia*, (with Andrea Sereni and Luca Zanetti)
- April 2021 **Society Session of the Philosophy of Mathematics Association: Rigor and Intuition**, *Pacific APA*, Online, Portland
- April 2020 **[CANCELED] Conference: The ‘End’ of Philosophy of Mathematics?**, *Conference at Princeton University*, (with John Burgess)
- Aug. 2019 **Symposium of the Association for the Philosophy of Mathematical Practice**, in: *16th Congress of Logic, Methodology and Philosophy of Science and Technology*, Prague, (with Andrew Arana)
- Aug. 2018 **Symposium of the Association for the Philosophy of Mathematical Practice**, in: *XXIV World Congress of Philosophy*, Beijing
- Feb. 2018 **Workshop: Mathematical Reasoning**, *Stanford University*, (with Rebecca Morris)
- Oct. 2017 **Workshop: Varieties of Visualization in Mathematics**, in: *4th International Meeting of the Association for the Philosophy of Mathematical Practice*, Salvador, Brazil
- Feb. 2017 **Conference: Tools of Reason: The Practice of Scientific Diagramming from Antiquity to the Present**, *Stanford University*, (with Paula Findlen and Greg Priest)

Member of Scientific or Organizing Committee

- Jan. 2026 **8th International Conference of the Association for the Philosophy of Mathematical Practice**, *ETH, Zurich*, Co-chair (with Paolo Mancosu) of the Scientific Committee
- Oct. 2024 **13th International Conference on the Theory and Application of Diagrams**, *Münster*, Workshop Chair
- Aug. 2024 **XXV World Congress of Philosophy**, *Rome*, Philosophy of Mathematics Program Chair
- Aug. 2023 **ECAP11 – 11th European Congress of Analytic Philosophy**, *Vienna*, Member of the Program Committee
- June 2023 **Bounded Rationality, Imperfect Data, and Trust: Perspectives from Social and Formal Epistemology**, *IUSS Pavia*, Member of the Organizing Committee
- Sept. 2022 **13th International Conference on the Theory and Application of Diagrams**, *Rome*, Member of the Scientific Committee of the Philosophy Track
- Sept. 2021 **12th International Conference on the Theory and Application of Diagrams**, *Online*, Member of the Scientific Committee of the Philosophy Track

- July 2021 **6th International Conference of the Association for the Philosophy of Mathematical Practice**, *Online, Chapman University*, Member of the Organizing Committee
- Aug. 2020 **11th International Conference on the Theory and Application of Diagrams**, *Tallinn*, Member of the Scientific Committee of the Philosophy Track
- Jan. 2020 **5th International Conference of the Association for the Philosophy of Mathematical Practice**, *ETH, Zurich*, Member of the Organizing Committee
- June 2018 **10th International Conference on the Theory and Application of Diagrams**, *Edinburgh*, Member of the Scientific Committee of the Philosophy Track

Service to the Discipline

- 2024-pres. **Founding Member**, *MaddMaths! Matematica Divulgazione Didattica*
- 2024-pres. **Member of the Directive Committee**, *Italian Society for Logic and Philosophy of Science (SILFS)*
- 2023-pres. **Member of the Directive Committee**, *European Society for the Philosophy of Mathematics (ESPM)*
- 2023-pres. **Fellow**, *Diversity of Mathematical Research Cultures and Practices (DMRCP)*
- 2023-2024 **Representative of researchers**, *IUSS Pavia*
- 2018-pres. **Member of the Directive Committee**, *Association for the Philosophy of Mathematical Practice (APMP)*

Editorial Service

- 2023-pres. **Member of the Editorial Board**, *Argumenta - Journal of the Italian Society for Analytic Philosophy (SIFA)*
- 2023-pres. **Managing Editor**, *Journal for the Philosophy of Mathematics (JPM)*
- 2022-2023 **Member of the International Advisory Board of *Phenomenology & Mind***
- 2021-pres. **Assistant Editor of *APhEx***, (*Analytical and Philosophical Explanations*) – *Italian journal for analytic philosophy, Open Problems* section
- 2019-pres. **PhilPapers Editor**, Categories: “*Mathematical Practice*,” “*Visualization in Mathematics*,” “*Philosophy of Literature*,” “*Fiction*,” “*The Basing Relation*,” “*Propositional and Doxastic Justification*,” and “*Epistemic Fallibilism*.”

Refereeing Journals

Axiomathes, The British Journal for the Philosophy of Science, Dialectica, Episteme, Erkenntnis, European Journal for Philosophy of Science, Hypatia, Journal for General Philosophy of Science, Journal of Humanistic Mathematics, Journal of Mathematical Behavior, Kriterion, Manuscripta, Mind, Philosophia Mathematica, The Philosophical Quarterly, Philosophical Psychology, Philosophical Studies, Philosophical Review, Philosophy of Science, Review of Analytic Philosophy, Spatial Cognition and Computation: An Interdisciplinary Journal, Synthese, Theoria, Theoria. An International Journal for Theory, History and Foundations of Science, Topoi.

Books

Oxford University Press, Cambridge University Press, Springer, Éditions de la Sorbonne.

Grants

FWF-Austrian Science Fund, Graduate Women in Science (GWIS) National Fellowship Program, Fondecyt Program National Research and Development Agency (Chile).

Presentations

(* = invited at international conference or workshop)

till 2024

- Nov. 2024 ***Workshop: Disagreement, Relativism, & Pluralism (I) and (II)**, *Veritas Research Center, Yonsei University, Seoul, Korea*, "Mathematical Justification without Proof" + "Mathematical Disagreement"
- Nov. 2024 **Oxford's Philosophy of Mathematics Seminar**, *Oxford University*, "How to Prove Things with Diagrams"
- Oct. 2024 ***Circle-U conference on the philosophy of mathematics**, *King's College London*, "Mathematical Justification without Proof"
- Oct. 2024 **Séminaire d'histoire des mathématiques de l'institut Henri Poincaré, IHP, Paris**, "Intuition in the History of Algebraic Geometry" (with Michael Friedman)
- Sept. 2024 **Università degli Studi di Napoli Federico II, Colloquium, Dipartimento di Filosofia**, "La filosofia della pratica matematica: una panoramica"
- Sept. 2024 ***Seminario nazionale sui Licei Matematici**, *Università di Salerno*, "La dinamicità dei diagrammi" (with Agenese Del Zozzo)
- Aug. 2024 **XXV World Congress of Philosophy, Association for Mathematical Practice Session, Rome**, "Trust in Mathematics"
- Aug. 2024 **XXV World Congress of Philosophy, Experimental Epistemology Session, Rome**, "Mathematical Justification without Proof"
- July 2024 ***Workshop: Bridging between informal and formal**, *Hausdorff Center for Mathematics*, "How to Prove Things with Diagrams"

- June 2024 **7th International Conference of the Association for the Philosophy of Mathematical Practice**, *IUSS Pavia*, “Trust in Mathematics”
- May. 2024 ***What Do We Talk About When We Talk About (Scientific) Practices?**, (keynote) *Heinrich Heine University Düsseldorf, Germany*, “The Practice Turn in the Philosophy of Mathematics”
- May 2024 **Colloquium Series**, *ETH Zurich*, “Trust in Mathematics”
- May 2024 **Colloquium Series**, *Munich Center for Mathematical Philosophy, LMU, Munich*, “Mathematical Justification without Proof”
- April 2024 **La filosofia nella matematica del '900**, *Accademia dei Lincei, Roma*, “Filosofia della pratica matematica: una panoramica”
- Nov. 2023 ***The A Priori in Miami**, *University of Miami*, “Mathematical Justification without Proof”
- Sept. 2023 ***33rd Novembertagung: Interactions between the History and Philosophy of Mathematics**, (keynote) *Rijeka, Croatia*, TBD
- Sept. 2023 **SIFA 2023 – 15th Conference of the Italian Society for Analytic Philosophy**, *University of Eastern Piedmont, Alessandria*, “Rigor, Intuition, and Diagrams”
- June 2023 **Lezioni Enriques**, *University of Milan*, “Che cosa sono i diagrammi matematici?”
- June 2023 ***Mathematics Education meets the Philosophy of Mathematical Practice**, *Loughborough University*, “What Mathematical Explanation Cannot Be”
- June 2023 ***Mathematical Drawings**, *Helsinki University*, “Mathematical Illustrations and Diagrams”
- May 2023 ***Understanding Mathematical Explanation**, *Rutgers University*, Commentator
- May 2023 **Philosophies of Mathematics in Dialogue**, *Princeton University*, “A Fallibilist Account of Mathematical Justification”
- April 2023 **Pacific APA**, *Session of the Association for Symbolic Logic, San Francisco*, “How to Do Things with Diagrams”
- Dec. 2022 **Mercoledì Filosofici del Maino**, *Pavia*, “Mathematical Justification: Motivations for a Fallibilist Account”
- Oct. 2022 **Uppsala University**, *Philosophy Department Talk*, “Mathematical Justification: Motivations for a Fallibilist Account”
- Sept. 2022 ***Logic and Philosophy of Mathematics Conference**, *Scuola Normale Superiore (SNS), Pisa*, “Defending Moderate Derivationism”
- Sept. 2022 **European Summer School on the Philosophy of Mathematics**, *University of Konstanz*, 5-days tutorial on “Mathematical Knowledge”
- June 2022 **EEN (European Epistemology Network) Conference**, *University of Glasgow*, “Successful Transmission of Justification Across Fallacious Arguments”
- June 2022 **University of St Andrews**, *Arché’s research stream “Epistemology: Current Themes”*, “Mathematical Justification”

- May 2022 **University of Trento**, *Maths Bites Trento, Department of Mathematics*, “Rigore e Intuizione in Matematica”
- March 2022 **CUNY (City University of New York), Graduate Center**, *Philosophy Colloquium*, “Successful Transmission of Justification Across Fallacious Arguments”
- March 2022 **Université Paris Cité**, *SPHERE, History and Philosophy Seminar, Mathematics 19th-21st*, “Recalcitrant Disagreement in Mathematics”
- March 2022 **Université Côte d’Azur, Nice**, *Centre de Recherches en Histoire des Idées, Séminaire d’histoire et de philosophie des sciences*, “Fallibilisme en mathématiques”
- Jan. 2022 **Eastern APA**, *Session of the Philosophy of Mathematics Association, Baltimore, Online*, “Beliefs, Degrees of Beliefs, and ‘Probabilistic Proofs’”
- Dec. 2021 ***Mathematical Collaborations 4**, *Vrije Universiteit Brussel and University of Leeds*, “Higher-Order Evidence in Mathematics”
- Oct. 2021 **FPMW13-13th French PhilMath Workshop**, *Nice*, “Diagrams and the Apriority of Mathematics”
- Sept. 2021 **SIFA 2021-14th Conference of the Italian Society for Analytic Philosophy**, *Noto, Sicily*, “Diagrams and the Apriority of Mathematics”
- Sept. 2021 ***Workshop: Text-Driven Approaches to the Philosophy of Mathematics**, *Duisburg-Essen University, online*, “Algebraic and Graphical Languages: the Case of Monoidal Categories”
- Aug. 2021 ***Workshop: Topic in Philosophy of Mathematical Practice**, *University of Copenhagen, online*, “Reconciling Rigor and Intuition”
- July 2021 **University of Bologna**, *Seminar in the mathematics department*, “Rigore e Intuizione in Matematica”
- July 2021 **6th International Conference of the Association for the Philosophy of Mathematical Practice**, *Chapman University, Online*, “Mathematical Practice and Analytic Epistemology”
- June 2021 **University of Trento**, *Seminar for the PopMat Laboratory*, “Cosa sono i diagrammi matematici?”
- June 2021 **Science & More Talks**, *Center for Logic, Language and Cognition (LLC), University of Turin*, “Can we form a justified belief in mathematics based on an incorrect argument?”
- June 2021 **Carl Friedrich von Weizsäcker-Colloquium**, *University of Tübingen, Online*, “What are Mathematical Diagrams?”
- Feb. 2021 **Stirling University**, *Visiting Speaker Seminar*, “A Case for the Fundamentality of Doxastic Justification”
- Jan. 2021 ***Workshop: Logic & Philosophy of Mathematics in the Evening**, *organized by D. Kant and D. Sarikaya, online*, “Mathematical Justification”
- Jan. 2021 **Eastern APA**, *online*, Comments on “Nietzsche... and Possibility of Metaphysics”

- Dec. 2020 **University of Trento**, *Online seminar for the PopMat Laboratory*, “Philosophy of Mathematical Practice”
- Nov. 2020 **Canadian Society for the History and Philosophy of Mathematics**, *online seminar series*, “The Epistemological Subject of Mathematics”
- May 2020 **Texas A&M University**, *online talk for a research group on mathematical reasoning*, “Who’s Afraid of Mathematical Diagrams?”
- April 2020 **[Postponed] *Conference: Understanding Mathematical Explanation**, *Rutgers University*, “Mathematical Explanations in Practice”
- April 2020 **[Canceled] Conference: The ‘End’ of Philosophy of Mathematics?,,** *Princeton University*, “Mathematical Justification Ain’t What it Seems”
- March 2020 **[Canceled] Conference: Dimensions of Epistemic Justification**, *University of Cologne*, commentator at large
- Jan. 2020 **5th International Conference of the Association for the Philosophy of Mathematical Practice**, *ETH, Zurich*, “A Fallibilist Account of Mathematical Justification”
- Nov. 2019 **Carnegie Mellon University**, *Philosophy Colloquium*, “Diagrammatic Notations in Mathematical Proofs”
- Nov. 2019 **Rutgers University**, *Talk at the Proof Comprehension Research Group*, “Mathematical Diagrams”
- Aug. 2019 **16th Congress of Logic, Methodology and Philosophy of Science and Technology**, *Prague*, “The Epistemic Basing Relation in Mathematics”
- June 2019 **Masterclass in the Philosophy of Mathematical Practice**, *Vrije Universiteit Brussel*, “Mathematical Justification in Practice”
- June 2019 ***Conference: Explanatory and Heuristic Power of Mathematics**, *University of Roma La Sapienza*, “Grasping How a Proof Supports its Conclusion”
- June 2019 **Intersem Seminar Series**, *Paris 7*, organized by Mic Detlefsen, “Rigorous Diagrammatic Proofs”
- May 2019 ***Conference: Big Proofs**, *International Center for Mathematical Sciences, Edinburgh*, “Diagrammatic Notations in Mathematical Proofs”
- April 2019 **Macalester College**, *Philosophy Colloquium*, “Mathematical Justification in Practice”
- April 2019 **Pacific APA, Society for Realist-Antirealist Discussion**, *Vancouver*, “Proof, Simil-Proofs, and Mathematical Justification”
- Dec 2018 **Mathematics in Action**, *Henri Poincaré Archives, Nancy*, “Mathematical Justification in Practice”
- Aug. 2018 **XXIV World Congress of Philosophy**, *Beijing*, “Fruitful Over-determination for Mathematical Notations”
- Aug. 2018 **XXIV World Congress of Philosophy, Association for Mathematical Practice Session**, *Beijing*, “What is a Mathematical Diagram”
- July 2018 ***Proofs and Representations Workshop**, *Munich Center for Mathematical Philosophy*, “Heterogenous Notations for Mathematical Proofs”

- June 2018 **10th International Conference on the Theory and Application of Diagrams**, *Edinburgh*, “Fruitful Over-Determination in Knot Diagrams”
- March 2018 **Stanford University**, *Psychology Department, Jay McClelland Laboratory*, diagrams in Mathematics
- Feb. 2018 **University of British Columbia, Okanagan campus**, *Philosophy Colloquium*, “Diagrams in Mathematical Practice”
- Jan. 2018 **Eastern APA**, *Society for Realist-Antirealist Discussion, Savannah*, “Proofs and Diagrams in Mathematics”
- Oct. 2017 **4th International Conference of the Association for the Philosophy of Mathematical Practice**, *Salvador, Brazil*, “Varieties of Mathematical Diagrams”
- July 2017 ***Conference: Visual Reasoning and Intuition in Mathematics**, *Free University of Berlin*, “Knots and Embeddings: New Tools for Incongruent Counterparts”
- June 2017 ***Conference: Logic in Question 7**, *Sorbonne University, Paris*, “Thinking with Diagrams: The Case of Mathematics”
- June 2017 **PhilMath seminar series**, *IHPST, Paris*, “Varieties of Mathematical Diagrams”
- June 2017 ***PROOFS workshop**, *IHPST, Paris*, “The Notion of Proof in the Practice of Mathematics”
- April 2017 ***Workshop: Mathématiques en action**, *Archives Henri Poincaré, Nancy*, “What is a Mathematical Diagram?”
- Feb. 2017 **Conference: Tools of Reason**, *Stanford University*, “Thinking with Diagrams: The Case of Mathematics”
- Nov. 2016 **Midwest PhilMath Workshop 17**, *Notre Dame University*, “Thinking with Diagrams: The Case of Mathematics”
- Sept. 2016 **City College New York**, *Philosophy Colloquium*, “Aspects of Diagrammatic Reasoning in Mathematics”
- July 2016 **Vrije Universiteit Brussel**, *Philosophy Colloquium*, (with Isar Goyvaerts) “Aspects of Diagrammatic Reasoning in Category Theory”
- June 2016 **University of Udine**, *Mathematics and computer science colloquium*, “Pensare con i Diagrammi: il caso dei Nodi”
- June 2016 ***Five Years MCMP: Quo Vadis, Mathematical Philosophy?**, *Munich Center for Mathematical Philosophy*, ““Varieties of Visualizations in Mathematics”
- April 2016 ***43rd philosophy of science conference in Dubrovnik**, *Dubrovnik, Croatia*, “Diagrams in Algebra”
- Nov. 2015 ***3rd International Conference of the Association for the Philosophy of Mathematical Practice**, (*keynote*) *Sorbonne University, Paris*, ““Chasing’ The Diagram – The Use of Visualizations in Algebraic Reasoning”
- March 2015 **Proofs and Pictures Conference**, *University of South Carolina, Columbia*, ““Chasing’ The Diagram – The Use of Visualizations in Algebraic Reasoning”

- Feb. 2013 **What is? Seminar**, *Berlin Mathematical School*, “What is a Rational Tangle?”
- Sept. 2012 **FilMat Conference**, *Scuola Normale Superiore, Pisa*, (with Valeria Giardino) “La dinamica dei diagrammi in teoria dei nodi”
- Sept. 2012 **SIFA 2012-Conference of the Italian Society for Analytic Philosophy**, *Alghero, Italy*, (with Valeria Giardino) “Roles and Forms of Diagrams in Knot Theory”
- Sept. 2012 **Mathematical Cultures Conference**, *London*, (with Valeria Giardino) “Low-dimensional topology as visual mathematics”
- June 2012 **Free University of Berlin**, *Sybilie Krämer’s colloquium*, “Die epistemische Rollen von Diagrammen in der Topologie”
- May 2012 **Conference of the French Society for Analytic Philosophy (SOPHA)**, *École Normale Supérieure, Paris*, (with Valeria Giardino) “Diagrammes et Illustrations en Topologie: Le Cas des Nœuds”
- Jan. 2012 **Work in Progress Seminar**, *Munich Center of Mathematical Philosophy*, “The Knot Moves: A Case Study on Diagram Dynamics”
- Jan. 2012 **University of Sevilla**, *Philosophy Colloquium*, (with Valeria Giardino) “Use and Epistemic Roles of Diagrams in Knot Theory”
- Jan. 2012 **Work in Progress Seminar**, *Munich Center of Mathematical Philosophy*, (with Valeria Giardino) “The Knot Moves: A Case Study on Diagram Dynamics”
- Dec. 2009 **What is? Seminar**, *Berlin Mathematical School*, “What is a Seifert Surface?”

Languages

Italian: native.

English: excellent (reading, writing, and speaking).

German and French: fluent (reading, writing, and speaking).