

Jonathan Lorand, Ph.D.

Education

M.A. Transdisciplinarity, Zurich University of the Arts	09/2020 - 01/2024
Ph.D. Mathematics, University of Zurich	09/2015 - 02/2020
M.Sc. Mathematics, ETH Zurich	09/2012 - 08/2015
B.Sc. Mathematics, ETH Zurich	09/2008 - 08/2012

Positions

Lecturer, Institute for Dynamic Systems and Control, ETH Zurich	10/2020 - present
PhD Student, Institute for Mathematics, University of Zurich	09/2015 - 02/2020
Assistant, Chair of Philosophy, ETH Zurich	10/2014 - 08/2015
Assistant, Chair of Macroeconomics: Innovation and Policy, ETH Zurich	10/2014 - 03/2015
Visiting Student Researcher, UC Berkeley	02/2014 - 08/2014
Assistant, Chair of Macroeconomics: Innovation and Policy, ETH Zurich	10/2013 - 02/2014
Assistant, Mathematics Department, ETH Zurich / EPF Lausanne	02/2011 - 12/2012

Teaching

Lecturing: Applied Category Theory for Engineering I & II
Seminars: Symplectic & orthogonal geometry; Applied category theory; Advanced linear algebra
Assistantship: Analysis I, II, & III; Probability and Statistics; Functional Analysis; Linear Algebra I & II;
Philosophical Aspects of Physics II

Mentoring & Organizing

Semester Theses: Yujun Huang (2022), Marius Furter (2021)
Co-organizer of the Zurich Graduate Colloquium 09/2016 - 08/2019

Publications & Preprints

Categorification of Negative Information using Enrichment (with A. Censi, E. Frazzoli, G. Zardini)	2022
(Co)isotropic triples and poset representations (with C. Herrmann, A. Weinstein)	2019
Morita bicategories of algebras and duality involutions (with A. Valentino)	2019
Biochemical coupling through emergent conservation laws (with J. Baez, B. Pollard, M. Sarazola)	2018
Decomposition of (co)isotropic relations (with A. Weinstein)	2015
(Co)isotropic pairs in Poisson and presymplectic vector spaces (with A. Weinstein)	2015

Scholarships & Awards

Travel grant from the University of Zurich	01/2019 - 02/2019
Scholarship of the Anna & Hans Kägi Foundation	09/2012 - 08/2015

Languages

German & Swiss-German (fluent), English (fluent), French (B1), Spanish (A2)