

Sebastián Gil Rodríguez

Contact	Technology Transfer Center, Augsburg Univeristy of Applied Sciences Am Papierbach 86899 Landsberg am Lech sebastian.gil.rodriguez@tha.de sebastian.higherlearning@gmail.com	
Languages Spoken	Spanish (native), English (native), German (C1)	
Research Interests	Foundations of Physics, Fractional Dynamics, AI Safety, Information Field Theory, Metaphysics	
Education	Ludwig-Maximilians-Universität München M.Sc., Physics Dissertation: <i>Gravitational Wave Astronomy through the Lens of Information Field Theory</i> Supervised by Dr. Torsten Enßlin	2024
	Ludwig-Maximilians-Universität München M.A., Logic and Philosophy of Science Dissertation: <i>Physical Geometry and Fractal Space-time</i> Supervised by Dr. Erik Curiel	2021
	The University of British Columbia B.Sc., Combined Honours in Physics and Astronomy Dissertation: <i>Nonconservative Lagrangian Mechanics</i> Supervised by Dr. Ludovic van Waerbeke	2016
	Technology Transfer Center, THA <i>Uncertainty Measures in State-of-the-Art ML Algorithms</i> Supervised by Dr. Carsten Markgraf and Dr. Sebastian Dorn	2024-
	Munich Center for Mathematical Philosophy, LMU <i>Mathematics as a Philosophical Paradigm</i> Supervised by Dr. Silvia Jonas	2019
	Department of Chemistry, UBC <i>Arrested Relaxation in an Ultracold Plasma</i> Supervised by Dr. Ed Grant	2017-2018
Research Positions		

	Department of Physics and Astronomy, UBC	
	<i>Perturbation Expansion of a Fractional Derivative Operator</i>	2016
	<i>Fractional Calculus in the Foundations of Quantum Mechanics</i>	2014
	Supervised by Dr. Ludovic van Waerbeke	
Awards and Funding	LMU Assistance in Case of Financial Difficulty	2021
	Bridging Assistance for Students	2020
	UBC Work Learn Research Award	2016
	UBC Faculty of Science International Student Scholarship	2015
	UBC International Community Achievement Award	2016
	ALAS International Student Award	2015
	Bruce Marshall Prize for Optics	2014
	UBC Outstanding International Student Award	2011
	UBC President's Entrance Scholarship	2011
Papers Presented	<i>Prospects for Possibilism</i>	
	Logic, Relativity, and Beyond Conference	2021
	Alfréd Rényi Institute of Mathematics	
Invited Talks	<i>Some Comments on Cosmological Natural Selection</i>	
	Cosmology Colloquium of the Physics and Astronomy Department	2024
	University of British Columbia	
	<i>Reconstructing Gravitational Wave Signals with IFT</i>	
	International Max Planck Research Schools Recruitment Workshop	2024
	Max Planck Institute for Astrophysics	
	<i>What is the Geometry of Nature?</i>	
	International Conference for Students of Analytic Philosophy	2021
	East European Network for Philosophy of Science	
	<i>La emergencia de la irreversibilidad del tiempo</i>	
	Escuela de Física	2021
	Universidad de Costa Rica	
	<i>Memory and the Arrow of Time in Foundations of Quantum Mechanics</i>	
	Multidisciplinary Undergraduate Research Conference	2017
	University of British Columbia	
Teaching Experience	Probability and Measure Theory for Data Science	
	Repetition Course	WiSe
	Technical University of Applied Sciences Augsburg	2024-2025
	Volunteer Instructor for Introduction to Python	
	ReDi School of Digital Integration	Fall 2024

Teaching Experience	Facilitator for AI Safety Fundamentals Alignment Track AI Safety Collab Germany	Summer 2024
	College Admission Essays and SAT Preparation Einstein Prep and Learning Center Costa Rica	2023-2025
	Curriculum Design for IB/AP Physics StudySmarter GmbH	2022
	Vancouver Institute for Higher Learning Inc.	2016-2017
	Physics Tutor Einstein Prep and Learning Center	2023-2025
	Easy Tutor GmbH	2023
	Fit for School GmbH	2022
	Math Tutor Einstein Prep and Learning Center	2023-2025
	Easy Tutor GmbH	2023
	Fit for School GmbH	2022
Non-academic Employment	Tutor Doctor Northshore	2016-2017
	Evidence-based Pedagogy for Physics and Astronomy UBC Graduate Seminar	2017
	Stagehand livedepartment GmbH	2023-
	Cashier Medicorum TAM GmbH	2021-2022
	Protective Security Management Assistant Allianz SE	2019-2021
	Service Worker smartset GmbH	2018-2019
	Assembly Line Packer Freshlocal Solutions Inc.	2018
	Warehouse Packer Showmax Event Services	2018
	Stage Builder Protect Production Group	2018

References	Sebastian Dorn TTZ THA sebastian.dorn@tha.de	Julian Stähler TTZ THA julian.staehler@hs-augsburg.de
	Torsten Enßlin MPA LMU ensslin@mpa-garching.mpg.de	Erik Curiel MCMP LMU erik@strangebeautiful.com
	John Dougherty MCMP LMU john.dougherty@lrz.uni-muenchen.de	Ludovic van Waerbeke PHAS UBC waerbeke@physics.ubc.ca