

Samuel Koovely

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EXPERIENCE	<i>Committee member for professorial appointment</i>	Jun. 2023 - Dec. 2023
	Institute for Mathematics, University of Zurich, Switzerland	
	<i>Teaching Assistant</i>	Sep. 2022 - Ongoing
	University of Zurich, Switzerland	
	<ul style="list-style-type: none">• Head Teaching Assistant of <i>Complex Networks Theory and Applications</i> (English) Fall Term 2022• Teaching Assistant of <i>Complex Networks Theory and Applications</i> (English) Fall Term 2023• Organizer of <i>Seminar on Markov Models</i> (English) Spring Term 2024	
EDUCATION	<i>Project Intern and Trainee</i>	Nov. 2020 - Nov. 2021
	IBM Research Zurich, Switzerland	
	<ul style="list-style-type: none">• Project intern for my MSc Thesis [1]• Further developed the model introduced in [1] as a post-graduate trainee.	
SKILLS	<i>Teaching Assistant</i>	Sep. 2017 - Aug. 2019
	ETH Zurich, Switzerland	
	<ul style="list-style-type: none">• Assistant of <i>Mathematik IV: Statistik</i> (German) Spring Term 2019• Assistant of <i>Stochastics (Probability and Statistics)</i> (German) Fall Term 2018• Assistant of <i>Probability and Statistics</i> (English) Fall Term 2017	
	<p>Languages: Italian (Native tongue), English (proficient), French (good), German (good)</p> <p>Programming Skills: Python (good), R (intermediate), Matlab (intermediate), C++ (basic), Wolfram Language (Basic)</p>	
SEMINARS & CONFERENCES	<i>PhD studies in Mathematics</i>	Aug. 2022 - ongoing
	University of Zurich, Institute of Mathematics	
	<i>BSc and MSc studies in Mathematics</i>	Sep. 2015 - Jul. 2021
	ETH Zurich, Department of Mathematics	
	<i>Seminar on Markov Models</i> , University of Zurich (organized)	Spring 2024
	<i>Random Walks and Community Detection</i> , Complex Networks: Theory, Methods, and Applications - 7th ed. (presented)	May 2023
<i>The art of statistics</i> , ETH Zurich (presented)	Dec. 2019	
<i>Theory and applications of Machine Learning</i> , ETH Zurich (presented)	Nov. 2019	
<i>Representation theory: groups, algebras and quivers</i> , ETH Zurich (presented)	Oct. 2018	
<i>Vector Bundles in algebraic topology</i> , ETH Zurich (presented)	Mar. 2018	

**THESES &
PROJECTS**

- [1] Samuel Koovely. “A mathematical framework for COMIC-Tree: an undirected graphical model for T-cell receptors specificity”. MSc Thesis. 2021.
- [2] Samuel Koovely. “Overview and empirical evaluation of some variations of the PC-algorithm”. Semester Research Project. 2020.
- [3] Samuel Koovely. “Introduction to Riemann surfaces and covering spaces”. BSc Thesis. 2019.