

Stefan P. Schmid

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RESEARCH AND WORK EXPERIENCE

- 2023–now** **Digital Chemistry Laboratory, ETH Zurich**, *Doctoral Researcher* *Zurich, Switzerland*
Advisor: **Kjell Jorner**
Associated PhD student at the ETH AI Center
- 2022–23** **Matter Lab, University of Toronto**, *Graduate Researcher* *Toronto, Canada*
Advisor: **Alán Aspuru-Guzik**
- 2022** **Copéret Group, ETH Zurich**, *Graduate Researcher* *Zurich, Switzerland*
Advisors: **Christophe Copéret**
- 2021** **EPR Group, ETH Zurich**, *Graduate Researcher* *Zurich, Switzerland*
Advisors: **Gunnar Jeschke**

EDUCATION

- ETH Zurich** Oct. 2023 – present
PhD Chemical Engineering with Kjell Jorner *Zurich, Switzerland*
- University of Toronto** Oct. 2022 – Mar. 2023
Visiting Student in Chemistry with Alán Aspuru-Guzik *Toronto, Canada*
- ETH Zurich** Sep. 2021 – Aug. 2023
MSc Chemistry *Zurich, Switzerland*
- Graduated with distinction (average 5.91/6.00)
- ETH Zurich** Sep. 2018 – Jan. 2022
BSc Chemistry *Zurich, Switzerland*
- Graduated with distinction (average 5.86/6.00)

SELECTED AWARDS AND FELLOWSHIPS

AWARDS

- 2024** **Best Presentation Award**, *Swiss Snow Symposium 2024*
- 2023** **ETH Medal**, (*top 2.5% of Master's theses of cohort*), *ETH Zurich*
- 2023** **IBM Research Prize**, (*best Master's theses in computational natural sciences*), *IBM Research Europe*
- 2023** **S.&N. Blank Prize**, (*best Master's theses in organic and polymer chemistry*), *S.&N. Blank Foundation*
- 2022** **Travel Fellowship**, *Swiss-European Mobility Programme*
- 2021** **Excellence Scholarship & Opportunity Programme**, (*top 2% of students*), *ETH Zurich*
- 2018** **Gold Medal**, *International Metropolis Olympiad*
- 2018** **Silver Medal**, *International Chemistry Olympiad*
- 2017** **Bronze Medal**, *International Chemistry Olympiad*

PUBLICATIONS

Stefan P. Schmid, Leon Schlosser, Frank Glorius*, Kjell Jorner*. *Catalysing (organo-) catalysis: Trends in the application of machine learning to enantioselective organocatalysis*, ChemRxiv, **2024**

Gary Tom*, **Stefan P. Schmid**, Sterling G. Baird, Yang Cao, Kourosh Darvish, Han Hao, Stanley Lo, Sergio Pablo-García, Ella M. Rajaonson, Marta Skreta, Naruki Yoshikawa, Samantha Corapi, Gun Deniz Akkoc, Felix Strieth-Kalthoff*, Martin Seifrid*, and Alán Aspuru-Guzik*. *Self-Driving Laboratories for Chemistry and Materials Science*, ChemRxiv, **2024**

Zachariah J. Berkson, Ran Zhu, Christian Ehinger, Lukas Lätsch, **Stefan P. Schmid**, Darryl Nater, Stephan Pollitt, Olga V. Safonova, Snædís Björgvinsdóttir, Alexander B. Barnes, Yuriy Román-Leshkov, Gregory A. Price, Glenn J. Sunley, and Christophe Copéret*. *Active Site Descriptors from ⁹⁵Mo NMR Signatures of Silica-Supported Mo-Based Olefin Metathesis Catalysts*, J. Am. Chem. Soc., **2023**, 145 (23), 12651-12662

Alessia Cesarini, Sharon Mitchell, Guido Zichittella*, Mikhail Agrachev, **Stefan P. Schmid**, Gunnar Jeschke, Zeyou Pan, Andras Bodi, Patrick Hemberger*, and Javier Pérez-Ramírez*. *Elucidation of radical- and oxygenate-driven paths in zeolite-catalysed conversion of methanol and methyl chloride to hydrocarbons*, Nat. Catal., **2022**, 5, 605-614

PRESENTATIONS

01/2023 **Contributed Talk**, *Predicting activation energies in 4D*

TEACHING AND MENTORING

TEACHING

2024 **Digital Chemistry**, *Head Teaching Assistant*
2024 **General Chemistry Practical Course**, *Teaching Assistant*
2022 **Organic Chemistry II**, *Teaching Assistant*
2021 **Organic Chemistry I**, *Teaching Assistant*
2021 **Physical Chemistry III - Quantum Mechanics**, *Teaching Assistant*
2020 **Physical Chemistry I - Thermodynamics**, *Teaching Assistant*

MENTORING

2024 **Thibault Klay**, *Master research project*
2023 **Henrik Seng**, *Bachelor Thesis*
2019–2022 **Chemistry High School Students**, *Austrian Chemistry Olympiad*
2019 **Team Innsbruck**, *Head Mentor at the International Metropolis Olympiad*

OUTREACH

Association of Chemistry Students at ETH Zurich (VCS)

- President (autumn semester 2021): lead the board of an association with over 1000 members
- President of the Sustainability Commission (autumn semester 2021): Lead sustainability efforts of VCS
- Board Member for University Politics (spring semester 2021): Lead negotiations about curriculum reform

International Olympiads (IChO)

- Exam Author for the 55th IChO 2023 in Switzerland: drafted, created and corrected 340+ exams (2021-2023)
- Social Media Representative at the Association of the Friends of the Austrian Chemistry Olympiad (2021)

Young Swiss Chemical Society (youngSCS)

- National University Representative of ETHZ (2023-now)

Union of the Assistants at the Chemical Labs of ETH Zurich (VAC)

- Associated Board Member (2023-now)

Chemistry Job Fair at ETH Zurich (Chemtogether)

- Board Member for IT-Infrastructure (2023-now): design and maintain website, organise exhibitor database

PRESS

2023 **ETH Press**, *#IChO - The connecting power of chemistry*

2021 **ETH Press**, *Get to know the new excellence scholarship holders at D-CHAB*

2018 **Tiroler Tageszeitung**, *Chemie-Genies sahnten ab (German)*

2017 **Tiroler Tageszeitung**, *Ein junger Innsbrucker, bei dem die Chemie stimmt (German)*

SKILLS

Programming Languages : Python, C++, R, Git, L^AT_EX

Libraries : PyTorch, SciKit, RDKit

Computational Chemistry : DFT calculations (ORCA, Gaussian), semiempirical methods (GFN2-xTB)

Languages : German (Native), English (Fluent), French (Beginner), Dutch (Beginner)