

# Jonny Proppe

## Curriculum Vitae

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### CONTACT DETAILS

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### RESEARCH OVERVIEW

**Topics** Chemical reactivity; thermochemistry and kinetics; CO<sub>2</sub> valorization.  
**Methods** Quantum chemistry; kinetic modeling; machine learning; uncertainty quantification.  
**Mission** Development of a general model of polar chemical reactivity.  
**Vision** Utilization of CO<sub>2</sub> as C1 building block in polar organic synthesis.

### CURRENT POSITION

since 10/2021 **Assistant Professor (German: Juniorprofessor) on Tenure Track**, *Technische Universität Braunschweig*, Germany.

### SCHOLARSHIPS AND AWARDS

2020 *IBM Research* prize, Zürich/Rüschlikon, Switzerland.  
2017 *Early Postdoc.Mobility* fellowship by the Swiss National Science Foundation (SNSF) for an 18-month research stay with Prof. Dr. Alán Aspuru-Guzik.

### SCIENTIFIC BACKGROUND

10/2019 **Postdoctoral Research**, *Georg-August-Universität Göttingen*, Germany. Funding: –09/2021 RTG 2455 “BENCh” (DFG). Principal investigator: Prof. Dr. Ricardo A. Mata.  
03/2018 **Postdoctoral Research**, *Harvard University / University of Toronto*, United States and Canada. Funding: Swiss National Science Foundation. Principal investigator: –08/2019 Prof. Dr. Alán Aspuru-Guzik.  
07/2014 **Doctoral Studies (Dr. sc.)**, *ETH Zürich*, Switzerland. Supervisor: Prof. Dr. –02/2018 Markus Reiher. Title of Dissertation: *Computational Systems Chemistry with Rigorous Uncertainty Quantification*.  
04/2014 **Master of Science (Chemistry)**, *University of Hamburg*, Germany. Thesis Supervisor: Prof. Dr. Carmen Herrmann  
09/2012 **Research Internship (Erasmus Fellow)**, *University of Oslo*, Norway. Supervisor: –12/2012 Prof. Dr. Eddy W. Hansen.  
09/2011 **Bachelor of Science (Chemistry)**, *University of Hamburg*, Germany.