Personal Data

Name Adrian Hoeske Date of Birth May 16, 1993 Place of Birth Braunschweig, Germany

Education

2012 University entrance diploma (Abitur) at Lessinggymnasium in Braunschweig

- 2012–2018 Undergraduate studies in Chemistry at TU Braunschweig (B. Sc. degree) Thesis in theoretical chemistry, supervised by Prof. Christoph Jacob Title: Overtones and Combination Bands in Theoretical Vibrational Spectroscopy
- 2018–2020 Graduate studies (specialized in biophysical chemistry) at TU Braunschweig (M. Sc. degree) Thesis in theoretical chemistry, supervised by Prof. Christoph Jacob Title: Assignment of Vibrational States in Vibrational Configuration Interaction Calculations based on Localized Modes
- Since 2020 Ph.D. studies in the group of Prof. Christoph Jacob Research topic: Computation of Resonant Inelastic X-ray Scattering in the Condensed Phase across the whole Periodic Table

Pre-Ph.D. Academic Experience

- 2016–2020 Research assistant in the theoretical chemistry group of Prof. Christoph Jacob, involving the calculation of infrared spectra with the local modes approach in Vibrational SCF/Vibrational CI calculations
- 2018 and 2019 Tutor in the advanced physical chemistry (quantum mechanics) bachelor course
 - 2019 Tutor in the computational chemistry bachelor course
 - 2020 Tutor in the mathematics bachelor course for pharmacists

Conferences and Summer Schools

- 03/2019 WAMCC Workshop on Advanced Methods in Computational Chemistry Workshop for one week in Tönning, Germany Talk: Vibrational spectroscopy
- 07/2019 TASQ Torun Astrophysics, Spectroscopy and Quantum Chemistry School Summer school for two weeks in Torun, Poland Poster: Efficient Calculation of Overtones and Combination Bands with Localized Modes

Publications

2019 "On the choice of coordinates in anharmonic theoretical vibrational spectroscopy: Harmonic vs. anharmonic coupling in vibrational configuration interaction"; P. T. Panek, A. A. Hoeske, C. R. Jacob; J. Chem. Phys., 150(5), 054107

Miscellaneous

Languages German – Native speaker English – Highly proficient (CEFR: C2) Spanish – Very good working knowledge (CEFR: B2) Portuguese – Good working knowledge (CEFR: B1) Japanese – Basic communication skills (CEFR: A1) Chinese – Basic communication skills (CEFR: A1)