

# Chaoqun ZHANG 张超群

TEL: (+1) 443-278-3826 E-mail: cq\_zhang@outlook.com  
Date of Birth: Dec. 12th, 1997 Post-doc @ Department of Chemistry, Yale University

## Education and working experience

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<b>B.S. in Chemistry</b>	<b>2015 - 2019</b>
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Department of Chemistry, Zhejiang University, Hangzhou, Zhejiang Province, China

<b>Ph. D. in Chemistry</b>	<b>2019 - 2024</b>
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Department of Chemistry, Johns Hopkins University, Baltimore, MD, USA

Advisor: Lan Cheng

<b>Post-doc</b>	<b>2024 - Now</b>
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Department of Chemistry, Yale University, New Haven, CT, USA

Advisor: Tianyu Zhu

## Research Areas

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Developments of electronic structure methods for spin defects and catalytic materials

Electronic and vibronic structures for molecules related to laser cooling

Development of relativistic electronic structure methods and spinor basis sets

## Teaching Experience

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Teaching assistant of "Organic Chemistry" course at Department of Chemistry, Zhejiang University	<b>2018</b>
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Teaching assistant of "Applied Chemical Equilibrium and Reactivity w/lab", "Introductory Organic Chemistry Laboratory", and "Introduction to Computational Chemistry" courses at Department of Chemistry, Johns Hopkins University	<b>2019 - 2021</b>
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## Awards

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Alexander Kossiakoff Award, Johns Hopkins University	<b>2023</b>
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China National Scholarship for undergraduate students	<b>2018</b>
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## Skills

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Program developments using C, C++, Python, and Fortran

Experiences in developing CFOUR, PySCF, and TeraChem (a collaborative project with Martinez group)

Knowledge of molecular electronic structure theory and semi-classical quantum dynamics