

Xueyu Zhang

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🌐 X. Zhang

👤 Professional Profile

With experience at both the Material Science Department and the Tokyo Tech Academy for Convergence of Materials and Informatics (TAC-MI). Possess cross-disciplinary research skills and multicultural collaboration abilities. Communicates and collaborates well for improved team achievement.

🏢 Work Experience

Tokyo Institute of Technology

Apr 2022 - : Research Assistant

Attended conferences to learn about new researches and findings. Designed and made presentations at conferences and forums. Developed a solver using the Galerkin method for numerical solutions of displacement fields in finite elasto-plastic deformations when the plastic fields are given. Provided guidance to new lab members on experimental practices and data analysis.

Resonac

Jul 2023 - Aug 2023: Intern

Installed and operationalized open-source "AizynthFinder" and "Rexgen" for predicting chemical reactions on company PCs, integrating both AI tools to produce yield-rated synthesis routes for target chemical products.

🎓 Education

Tokyo Institute of Technology

2022 - : PhD student in Material Science

Tokyo Institute of Technology

2020 - 2022: MSc in Material Science

Dalian University of Technology

2015 - 2020: BSc in Material Science and BA in Japanese

🏆 Accomplishments

- "Health Cup" Dance Competition Group 2nd Prize, Dalian University of Technology, May 2018
- Learning Excellence Award (First Prize), Dalian University of Technology, Sep 2019
- X. Zhang, et al. Best Poster Award, JIM 170th Annual Spring Meeting 2022, March 2022
- X. Zhang, et al. Best Poster Award, The 5th international Symposium on Long-Period Stacking/Ordered Structure and Mille-feuille Structure, 14th Dec 2022
- Practice School in Materials Informatics, Excellence Award, Aug 2023
- Publication: Zhang, X., Matsumura, R., Shinohara, Y. and Inamura, T. Origin of bent ridge-kink based on disclination relaxation. International Journal of Solids and Structures, (2024) 112829

⚙️ Skills

Python (numpy, pygmsh, pandas, matplotlib, etc.), Latex, matlab, Finite Element Analysis (FEA), Electron Back-Scatter Diffraction (EBSD) Analysis, Operation of Scanning Electron Microscope (SEM)

🌟 Certifications

TOEFL-iBT (103 points) Sep 2019, JLPT-N1 (148 points) Jan 2020

🗣️ Languages

Chinese - Native, English - Conversational Fluency, Japanese - Conversational Fluency