Xueyu Zhang

Ph.D. student at Tokyo Tech

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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 **2020 - 2022:** *MSc in Material Science*

Dalian University of Technology **2015 - 2020:** *BSc in Material Science and BA in Japanese*

Accomplishments

- "Health Cup" Street 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
- Publication: Zhang, X., Matsumura, R., Shinohara, Y. and Inamura, T. (2024) Origin of bent ridge-kink based on disclination relaxation. International Journal of Solids and Structures, 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