

PAUL SIMANJUNTAK

Personal

Name Paul Yaohan Simanjuntak
Nationality Indonesia
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Mailing Address 20 Mathematical Sciences Building
University of Missouri – Columbia
Columbia, MO 65211

Education

University of Wisconsin, Madison

Bachelor of Arts, May 2015
Mathematics and Physics, Minor in German

Missouri State University

Master of Science, May 2017
Material Science
Thesis: *Development of Many-body Potential for Deformation Study in Al-TiN Nanolayered Composites*
Advisor: Ridwan Sakidja

University of Missouri - Columbia

Doctorate, May 2022 (Expected)
Mathematics
Advisor: Peter Pivovarov

Talks/Presentations on Previous Projects

P. Simanjuntak, R. Sakidja, C. Zhou; *Development of Al-Ti-N Many-body EAM Potentials*; Arkansas INBRE 2016; October 22, 2016; Fayetteville, AR

M.S. Islam, P. Simanjuntak, R. Sakidja, S. Mitra; *Diffusion Behavior of Lithium in LiPO₃ and Li₃PO₄ Model Systems*; Arkansas INBRE 2016; October 22, 2016; Fayetteville, AR

P. Simanjuntak, R. Sakidja, C. Zhou; *Development of Many-body Potentials for Al-TiN Nanolayered Composites*; Material Science & Technology 2016; October 24, 2016; Salt Lake City, UT

M.S. Islam, P. Simanjuntak, R. Sakidja, S. Mitra; *DFT Study on the Li Mobility in Li-Ion-Based Solid-State Electrolytes*; Material Research Society Spring Meeting 2017; April 17, 2017; Phoenix, AZ

R. Sakidja, P. Simanjuntak, C. Zhou; *Atomistic and Meso-scale Modeling on Deformation and Fracture Behaviour of TiN-Al Nanolaminates*; Material Science & Technology 2017; October 8, 2017; Pittsburgh, PA

Awards

Analysis Qual Exam Excellence Award

May 2020

Departmental Service Award May 2018, May 2019, May 2020

Missouri Outreach Graduate Opportunity Scholarship August 2015

Seminars Organized

Graduate Seminar 2018-2019

Graduate Function Analysis Seminar Spring 2020

Organizational Activities

UW-Madison Math Club Madison, WI

Publication Coordinator September 2013 – May 2015

- Promoting events and information pertaining to Math Club
- Planning semester-long events for Math Club members

Work Experiences

Division of University Housing Madison, WI

Math Tutor September 2013 – May 2015

- Conducts group tutoring for students with very satisfactory reviews from students

UW Physics Museum Madison, WI

Docent March 2012 – May 2015

- Guides tours of Physics Museum around physics-related exhibits
- Provides assistance to museum visitors
- Maintaining and organizing exhibits

Community Involvement

Madison College, English Tutor September 2011 – August 2013

Literacy Network, English Tutor September 2011 – August 2013

Science Olympiad, Judge February 20, 2016

Ozarks Science & Engineering Fair, Judge March 29, 2016

Pummil Math Relays, Volunteer April 6, 2016

Ozarks Food Harvest, Volunteer September 2016 – July 2017

Purple Comet Math Competition, Translator 2015 – present

GradeAPlus, Graduate Math Tutor September 2017 – present

Miscellaneous

Computer Training: Mathematica , Matlab, Python, LaTeX

Foreign Language: German (Proficient), Indonesian (Native)