

Curriculum Vitae

Name: Hang Jin

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EDUCATION

09/2017-Now George Washington University, USA

Department of Mathematics, Columbian College of Arts & Sciences

- Ph.D of Science—Mathematics

09/2016-09/2017 Hong Kong Baptist University, Hong Kong

Department of Mathematics, Faculty of Science

- Master of Science—Operational Research and Business Statistics

Dual Master Degree with University of Kent, England

- Master of Science—Business Analytics

09/2008-06/2012 University of Science and Technology Beijing, China

Department of Materials Science and Engineering

- Bachelor of Engineering—Materials Physics

WORKING EXPERIENCES

10/2014-08/2016 Beijing Bailitop Gabriel Consulting Co.Ltd, China

Consultant & Teacher, Department of Teaching and Tutoring

- Taught TOEFL & GRE to graduate and undergraduate students

09/2012-04/2014 China Guangdong Nuclear Power Company (CGN), China

Material Engineer, Department of Material Testing Center

- Tested the strength and distortion of the material used in nucleus power station
- Used implements, such as SX-100, to find out the flaws in the material

ACADEMIC EXPERIENCES

01/2021-05/2021 National Science Foundation(NSF)

Project: Reconstruct morphological phases from nonlocal geometric systems

Advisor: Prof.Xiaofeng Ren

- Numerically calculate, analysis, and show the energy term by **Matlab**
- Find out the green function, eigenvalue and the stability of perturbation

09/2019-now George Washington University

Project: Cylinder solution in 3D strip of the FitzHugh-Nagumo systems (Ph.D thesis)

Advisor: Prof.Xiaofeng Ren

- Numerically calculate analysis, and show the energy term by **Matlab**
- Find out the green function, eigenvalue and the stability of perturbation

01/2018-Now Graduate assistant, George Washington University, U.S.A

- Teaching assistant for Calculus I II III, Partial Differential Equation, Real Analysis

02/2017-06/2017 Master Thesis, Hong Kong Baptist University, HK

Title: Micro-Structural Changes of Material Deformed in Ultra-Low Temperature

Advisor: Prof. Michael NG

- Analyzed the reason for twin deformation instead of displacement deformation
- **Visualize** the data, find the **regression** model and **correlation & covariant** coefficient by **R**
- **Classify** and **Cluster** the data by **SPSS**

04/2012-06/2012 National Leading Science and Technology Studies under NSFC (Natural Science Foundation of China)

Title: Strong Shear and Melt Treatment of AS Series Heat-resistant Magnesium Alloy

Advisor: Prof. Xitao Wang

INTERNSHIP & EXTRACURRICULAR ACTIVITIES

05/2021-10/2021 Luokung Technology Corp, Beijing

Project: Algorithm Internship

Mentor: Xun Jiang

- Use **SUMO** to simulate the traffic including cars and traffic lights
- Use **Pytorch** and **Python (Reinforcement Learning & Deep Learning)** to improve the traditional routing algorithm such as A* algorithm.

06/2020-09/2020 Science Gateways Community Institute (SGCI) and University of Michigan, Ann Arbor

Project: Database Internship

Mentor: Emily Roberts

- Established a protein **database** by **Python** and **Neo4j**
- Created a search interface(front) for the **database** by **Django**, **HTML**, **CSS**

TECHNICAL AND LANGUAGE SKILLS

- Computer Skills: **Python**, **Pytorch**, **R**, **Neo4j**, **Django**, **HTML**, **CSS** and **Matlab**
Professional Certificate in Introduction to Python Programming, Georgia Tech
- Algorithm Skills: Artificial intelligence, **Reinforcement Learning**, **Deep Learning**, **Algorithm**,
- Math Skills: **Applied Math**, **PDE**, **Graph Theory**, **Linear Algebra**, **Real Analysis**, Complex Analysis, Topology, and Algebra.
- Statistics Skills: Markov Chain Monte Carlo(**MCMC**), **Probability**, Operational Research(optimization), Stochastic process, Data analysis, Time series analysis, Data visualization, Classification, Regression, and Clustering.

HONORS & AWARDS

- Recipient of \$7500 NSF Fellowship in Spring 2021, National Science Foundation
- Recipient of \$15,000 Dean's Fellowship in AY 2020-21 and AY 2019-20, Department of Mathematics, George Washington University
- Recipient of \$10,000 Dean's Fellowship in AY 2017-18, Department of Mathematics, George Washington University
- Got National High School Mathematical League-National Second Prize