



Juxihong (Jushkun) Julaiti (He/Him)
Quantitative Researcher @ Meta

 Meta

 Penn State University

Greater Boston · [Contact info](#)
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More

Open to work

Applied Scientist, Research Scientist, Data Scientist and Operations Res...

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Resources

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About

Experienced end-to-end analytical solutions developer.
Interests: Modeling and solving combinatorial optimization problems with reinforcement learning.
...


Activity




582 followers

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PostsComments


Juxihong Julaiti reposted this · 1mo



37,487




593 comments

Juxihong Julaiti reposted this · 1mo




Data Engineering Manager

Job by TE Connectivity
Middletown, Pennsylvania, United States (Hybrid)

41

Juxihong Julaiti reposted this · 2mo


59

2 comments

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Experience


+✎



Quantitative Researcher

Meta · Full-time
Sep 2022 - Present · 10 mos
Boston, Massachusetts, United States

Skills: Modeling · Algorithm Development · Data Manipulation · Mathematics · Interpersonal Communication · Datasets · Data Wranglin...



Koch Engineered Solutions

Full-time · 9 mos

Senior Data Scientist

Jul 2022 - Sep 2022 · 3 mos
Boston, Massachusetts, United States

- Led research, design, development, and deployment of machine learning models in the fire heater domain...

Skills: Modeling · Algorithm Development · Data Manipulation · Mathematics · Interpersonal Communication · Datasets · Data Wranglin...

Data Scientist

Jan 2022 - Jul 2022 · 7 mos

- Utilized combustion domain knowledge and piping & instrumentation diagram (PID) to understand the data source...

Skills: Modeling · Algorithm Development · Data Manipulation · Mathematics · Interpersonal Communication · Datasets · Data Wranglin...

https://www.linkedin.com/in/juxihongjulaiti/

2/8



TE Connectivity

Full-time · 1 yr 7 mos
Harrisburg, Pennsylvania, United States

Staff manufacturing and process development engineer

Dec 2020 - Dec 2021 · 1 yr 1 mo

Center of Analytics, Information Solutions
- Developed a discrete-event simulation-based safety stock optimizati...

Skills: Modeling · Algorithm Development · Data Manipulation · Mathematics · Interpersonal Communication · Datasets · Data Wranglin...

Staff manufacturing and process development engineer

Jun 2020 - Dec 2020 · 7 mos

Corporate Technology, Global Operations
- Developed a supervised model to predict stamping machine failures...

Skills: Modeling · Algorithm Development · Data Manipulation · Mathematics · Interpersonal Communication · Datasets · Data Wranglin...



Instructor of IE405 (Deterministic Models in Operations Research)

Penn State University · Part-time
Jan 2020 - May 2020 · 5 mos
State College, Pennsylvania, United States

Taught 100+ undergrads various deterministic operations research topics including...

Skills: Modeling · Mathematics · Problem Solving · Mathematical Modeling



Penn State University

1 yr
State College, Pennsylvania Area

Advanced CyberInfrastructure Software Specialist

Jan 2018 - Dec 2018 · 1 yr

Institute for Computational and Data Sciences
- Build and test Singularity images for clients...

Skills: Modeling · Data Analytics · Analytics · Problem Solving · Natural Language Processing (NLP) · Computer Science · Data Science · Python

Supply Chain Management Teaching Assistant in Smeal College of Business

Jan 2018 - May 2018 · 5 mos

-Developed course materials including 1) supply chain basics, 2) mathematical modeling, 3) forecasting...

Skills: Mathematics

Show all 9 experiences →

Education




Penn State University

Dual-title PhD, Operations Research, Industrial Engineering
Sep 2015 - Jun 2020


Activities and societies: INFORMS Penn State Chapter, Laboratory for Intelligent Systems and Analytics, Center for Health Organization...

OpenAI Gym and Reinforcement Learning, The Pennsylvania State University, 2019...


Skills: Modeling · Data Manipulation · Mathematics · Data Analytics · Predictive Analytics · Analytics · Communication · Problem Solving ...



Penn State University
Master's Degree, Industrial Engineering
2015 - 2016



Skills: Analytics · Data Science · Mathematical Modeling · LaTeX · Python





Capital University of Economics and Business
Bachelor's Degree, Industrial Engineering
2010 - 2014



Activities and societies: Laboratory for Simulation


Excellent Graduates, CUEB
Outstanding Graduates among universities in Beijing, Beijing Municipal...

Skills: Analytics



Licenses & certifications






Guided Tour of Machine Learning in Finance
Coursera
Issued Jan 2021
Credential ID JBN3BKLFZKB5

Show credential


Skills: Predictive Analytics · Analytics



Deep Learning
Udacity
Issued Oct 2020

Show credential

Skills: Predictive Analytics · Analytics





Queuing Theory
edX
Issued Dec 2019
Credential ID 3a959293143545758787325ad3aba60c

Show credential


Skills: Predictive Analytics · Analytics · Mathematical Modeling

Show all 13 licenses & certifications →

Projects



CT Detector Swap Sequence Optimization, GE Healthcare
Jun 2018 - Aug 2018

 Associated with Penn State University

-Developed an integer programming model to find the best sequence of swapping plan...

Skills: Analytics · Communication · Problem Solving · Python

Extract article data from Elsevier
Feb 2018 - May 2018

Show project

This is an open source project using API from Elsevier to allow users to extract data of research articles, that can be used to analyze a topic by clustering page...

Skills: Analytics · Problem Solving · Natural Language Processing (NLP) · Python

Studying patients with multiple chronic condition using online healthcare forums, CHOT, NSF
Oct 2016 - May 2017

 Associated with Penn State University

-Collected data from public online health care forums by coding web robots in Python...


Skills: Analytics · Problem Solving · Python


Other contributors



Show all 4 projects →


Skills




 You've added the maximum number of skills


Demonstrate skills

Modeling


 8 experiences across Meta and 3 other companies


 Penn State University

Algorithm Development

 5 experiences across Meta and 2 other companies



Data Manipulation

 5 experiences across Meta and 2 other companies

 Penn State University

Show all 50 skills →

Publications

Stochastic parallel machine scheduling using reinforcement learning

Journal of Advanced Manufacturing and Processing · Apr 22, 2022

Early stage machine learning–based prediction of US county vulnerability to the COVID-19 pandemic: machine learning approach



JMIR public health and surveillance · Jul 1, 2020

Cluster Vector Space Model: A Dimensionality Reduction Method for Text Classifications Based on the Vector Quantization


IIE Annual Conference Proceedings · Mar 16, 2017

Show all 5 publications →

Courses


EE 556 Neural Networks

 Associated with Penn State University

IE 505 Linear Programming

 Associated with Penn State University

IE 511 Design of experimentations

 Associated with Penn State University

Show all 13 courses →

Honors & awards



Marcus Fellowship

Issued by Harold and Inge Marcus Department of Industrial and Manufacturing Engineering · Jul 2019

Excellent CHOT Scholar

Issued by Center for Health Organization Transformation, Penn State · Dec 2016

 Associated with Penn State University

Outstanding Graduates

Issued by Beijing Municipal Education Commission · Jun 2014

 Associated with Capital University of Economics and Business

Show all 6 honors & awards →

Languages



Chinese (Simplified)

Native or bilingual proficiency

English

Native or bilingual proficiency

Uyghur

Native or bilingual proficiency

Organizations




INFORMS Penn State Chapter

President · Aug 2016 – Present

 Associated with Penn State University


Institute of Industrial Engineers (IIE)

Member · Jan 2015 – Present

 Associated with Penn State University

Center for Health Organization Transformation

Scholar · Oct 2016 – May 2017

 Associated with Penn State University

Interests


Top Voices Companies Groups Newsletters Schools

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Co-chair, Bill & Melinda Gates Foundation

34,739,310 followers

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Lex Fridman  · 2nd


Research Scientist, MIT

974,475 followers

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Data Science & Analytics @ Meta

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Massimiliano Cea

Data Analyst at Meta

 Connect

Xiaoyi Jiang


Data Developer at Meta

 Connect

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Skills: Cold Calling

34min

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