

Peixian Wang

Curriculum Vitae

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Educational Background

2020	MA Candidate in Near Eastern Studies , <i>Hagop Kevorkian Center for Near Eastern Studies</i> , NYU, New York, NY. Anticipated May 2023
2020	Non-degree Student , CUNY Graduate Center, New York, NY.
2019	Arabic Summer Intensive , Qasid Institute, Amman, Jordan.
2018	Non-degree Student , Hunter College, New York, NY.
2012-2016	BSc Astronomy , <i>College of Liberal Arts and Sciences</i> , University of Illinois, Urbana-Champaign, Illinois.

Research Interests

- MIDDLE EAST**
 - Religious rituals of Shia in Iraq
 - Politics and authority within religious ceremonies
- LINGUISTICS**
 - Automated speech processing for religious rituals
 - Language transfer between Arabic, Mandarin, and English

Professional Experience

2018	Senior Software Engineer , <i>Bloomberg LP</i> , NYC, bloomberg.com/company. Working on intent classification on the NLP team within the AI group. Previously worked on petroleum markets and multi-asset risk.
2018	Consultant , <i>Tokamak Software LLC</i> , NYC, tokamak.io. Running a software consultancy for distributed systems and natural language processing.
2018	Golang Developer , <i>Datadog</i> , NYC, datadoghq.com. Built data ingestion services for Amazon Web Services, Google Cloud Platform, and Microsoft Azure.
2016-2018	Backend Engineer , NYC, Vimeo, vimeo.com. Wrote and maintained Python video delivery pipeline.

Languages

Mandarin Native
English Native

Modern Standard Arabic Intermediate
Iraqi Arabic Advanced

Skills

Programming Languages C++, Python, R, Julia, C, Erlang, Go
Software Distributed systems, software reliability, formal methods
Statistics Monte Carlo simulation, historical simulation, etc
Natural Language Processing Deep learning, intent classification
Finance and Economics Petrochemical markets, multi-asset risk systems

Affiliations

Professional

Association for Computational Linguistics
Apache Software Foundation (apache.org/foundation)
Wilderness First Responder, NOLS

Volunteering

2021

Assessor, *Airwars*, Remote, airwars.org.
Verifying and assessing civilian casualty counts from airstrikes.

2020

Volunteer, *ITDRC*, NYC, itdrc.org.
Volunteering with setting up network and internet connections for communities during disasters.

2018
2019

Tutor, *New York Cares*, NYC, newyorkcares.org.
Tutored students in the PSAT and tutored adults in English for citizenship applications.

2014
2015

Organizer, *HackIllinois*, University of Illinois, hackillinois.org.
Helped to organize first hackathon with the Computer Science Department.

2013
2014

Organizer, *Reflections/Projections Conference*, University of Illinois, reflectionsprojections.org.
Helped to find speakers, organize travel, and general staffing of the largest student-run technology conference in the Midwest.

Projects

Graduate Projects

2021

Syria 2019 Civilian Casualty Assessment.
<https://airwars.org/conflict/russian-military-in-syria/>

2021

Libya Civilian Casualty Assessment.

<https://airwars.org/news-and-investigations/ten-years-after-libyan-revolution-victims-wait-for-justice/>

Undergraduate Projects

2016

Stellar Stream Modeling.

Measurement of stellar stream formation through N-body simulation (github.com/peixian/Stellar-Stream-Modeling)

2016

Z3 Petya Solver.

Usage of the Z3 theorem prover to solve Petya encryption (github.com/peixian/Infestor)

2016

Starcraft AI.

Construction of a game AI through a multi-layer perceptron (github.com/peixian/Ultralisk)

References

Available on request.