

# Peixian Wang

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malloc.dog  
peixian

## Curriculum Vitae

### Educational Background

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

### Research Interests

- Anthropology**
  - Religious rituals of Shia in Iraq: malloc.dog/karbala
  - Memory of tragedy and reproduction of tradition
- Linguistics**
  - Language transfer between Arabic, Mandarin, and English for large language models
  - Identity construction and differentiation between dialects

### Professional Experience

2024	<b>Senior Production Engineer</b> , <i>WhatsApp</i> , NYC, whatsapp.com. Working on keeping WhatsApp up and running.
2022	<b>Senior Software Engineer</b> , <i>Sleeper</i> , Remote, sleeper.com/company. Working on building sports betting and backend applications.
2018	<b>Senior Software Engineer</b> , <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	<b>Golang Developer</b> , <i>Datadog</i> , NYC, datadoghq.com/about. Built data ingestion services for Amazon Web Services, Google Cloud Platform, and Microsoft Azure.
2016	<b>Backend Engineer</b> , <i>Vimeo</i> , NYC, vimeo.com/about. Wrote and maintained Python video delivery pipeline.

## Consulting Experience



**Consultant**, *Tokamak Software LLC*, Remote, [tokamak.io](http://tokamak.io).

Running a software consultancy for distributed systems and natural language processing.



**Expert Interviewer**, *Karat*, Remote, [karat.io](http://karat.io).

Providing technical interviewing services.



**Consultant**, *United Nations, Department of Peacekeeping and Political Affairs*, Remote, [dppa.un.org/en](http://dppa.un.org/en).

Served as a technical consultant on a Natural Language Processing project related to gender sensitive language within DPPA.



**Contract Developer**, *IPInfo*, Remote, [ipinfo.io](http://ipinfo.io).

Built out Airflow backend for distributed processing.

## Projects

### Published Work



**Annual Civilian Harm Report, 2021.**

Contributed to assessments for civilian casualties for 2021: ([airwars.org/report/annual-report-for-2021](http://airwars.org/report/annual-report-for-2021))



**Libya Civilian Casualty Assessment.**

Contributed to assessments on civilian casualties in Libya: ([airwars.org/news-and-investigations/ten-years-after-libyan-revolution-vict](http://airwars.org/news-and-investigations/ten-years-after-libyan-revolution-vict))

### Undergraduate Projects



**Stellar Stream Modeling.**

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



**Z3 Petya Solver.**

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



**Starcraft AI.**

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

## Languages

Mandarin	Native
English	Native
Modern Standard Arabic	Intermediate
Iraqi Arabic	Advanced

## Skills

Programming Languages	Elixir, Erlang, C++, Python, R, Julia, C, Go
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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

## Volunteering

2021  
2023

**Assessor**, *Airwars*, Remote, [airwars.org](http://airwars.org).

Verifying and assessing civilian casualty counts from airstrikes.

2020  
2022

**Volunteer**, *ITDRC*, NYC, [itdrc.org](http://itdrc.org).

Volunteering with setting up network and internet connections for communities during disasters.

2018  
2019

**Tutor**, *New York Cares*, NYC, [newyorkcares.org](http://newyorkcares.org).

Tutored students in the PSAT and tutored adults in English for citizenship applications.

2014  
2015

**Organizer**, *HackIllinois*, University of Illinois, [hackillinois.org](http://hackillinois.org).

Helped to organize first hackathon with the Computer Science Department.

2013  
2014

**Organizer**, *Reflections/Projections Conference*, University of Illinois, [reflectionsprojections.org](http://reflectionsprojections.org).

Helped to find speakers, organize travel, and general staffing of the largest student-run technology conference in the Midwest.

## Affiliations

### Professional

Association for Computational Linguistics ([aclweb.org/portal/](http://aclweb.org/portal/))

Apache Software Foundation ([apache.org/foundation](http://apache.org/foundation))

Wilderness First Responder, NOLS ([nols.edu/en](http://nols.edu/en))

## References

Available on request.