

Hao Wu

New York, NY 11374 | 347.740.5351

thefifth2002@gmail.com | www.linkedin.com/in/wu-hao | www.github.com/thefifth2002

Education

New York University, Courant Institute

M.S. Computer Science

New York, NY

2015 - Dec. 2016

The Graduate Center of CUNY

Ph.D. Biology

New York, NY

2007 - 2015

Shandong University

M.S. Biology

Jinan, China

2004 - 2007

Shandong Normal University

B.S. Biology

Jinan, China

2000 - 2004

Professional Experience

Insight Data Science

New York, NY, Sept. 2017- Current

Data Engineering Fellow

- Construct and scaled a distributed batch and streaming pipeline for real-time credit card transaction alert system.
- Ingested high volume data with Kafka and Spark streaming, optimized batch process in Spark and MySQL queries to enable swift database update.
- Front end user interface enabled alert and user queries visualization.

Primary Cell, LLC

New York, NY, 2013 - 2015

Partner & Chief Scientist

- Commercialization of primary neuron culture cryopreservation at low cost and competing price.
- Quality test and viability analysis of neuron product for commercial sales.
- Research on cryopreservation techniques and optimization of cell preserve storage conditions.

Graduate Center, City University of New York

New York, NY, 2008 - 2015

Research Assistant and Adjunct Instructor

- Scientific computation, visualization and statistic research on Autism, using image and video processing and deconvolution techniques.
- Computational construction of biological model using C++, and simulation of the hydrokinetics of Nanoparticles and micro vesicles in a cell culture medium environment.
- Instruction, course organization, experiment and exam design for college pre-med classes.

Independent Projects

- Amazon sales and review data mining and analytics with Big Data technologies (implemented with Java), cross referencing sales data to review data, developed a potential new Book search algorithm.
- Web, Android and iOS cross-platform community game development with HTML, CSS, AngularJs and PhoneGap. www.ilovenyc.us

Technical Skills

- Programming Languages: Java, C++ and Python.
- Data Science Infrastructure: AWS, Spark, Kafka, Map-Reduce, MySQL, Hive and MATLAB.
- Web construction: .Net, C#, JavaScript, HTML, CSS, TypeScript and AngularJs.