

Shoujun Gu, Ph.D

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Expertise

- Data Mining and Analysis Tools
- Biological and Genomic Data Analysis
- Data Munging and Visualization Tools
- Prediction Model Building (Machine Learning)

Technical Skills

Python, MySQL, Excel/VBA, Javascript, Bootstrap, HTML, Tableau, NGS Working Flow

Data Analytics Projects

- The Cancer Genome Atlas (TCGA) data mining and analysis project (role: team member)
The manuscript of this project entitled ‘*A Pan-Cancer Atlas of Genomic, Epigenomic and Transcriptomic Alterations in the TGF- β Pathway*’, is under reviewing
- Build model to predict impact factor range based on the abstract of a research manuscript (role: all)
Details available at: https://github.com/shoujingu/IF_Predict
- Data mining and analysis on all healthcare publications (Year: 2017) in PubMed database (role: all)
Details available at: https://github.com/shoujingu/2017_Pubmed_Analysis

Education

The George Washington University, Washington, DC

Oct 2017 – Apr 2018

Data Analytics Boot Camp

An intensive 24-week long boot camp dedicated to Data Mining and Analytics Skills on a variety of real-world problems.

UT Health Science Center at San Antonio

Aug 2005 – May 2012

Ph.D. Department of Biochemistry

Achievements:

- Oral presentation in American Society for Bone and Mineral Research 2008 Annual Meeting
- First Author publication on *The Journal of Biological Chemistry**

Working Experience

The George Washington University, Washington, DC

Jan 2018 –

Research Scientist

Data mining on various biological databases and data analysis on next-generation sequencing results.

Washington DC VA Medical Center, Washington, DC

Oct 2015 –

Research Assistant (Professor)

Data mining on various biological databases and data analysis on next-generation sequencing results.
Achievements:

- Multiple publications on various peer-review journals*

The George Washington University, Washington, DC

Oct 2015 – Jan 2018

Postdoctoral Researcher

Data mining on various biological databases and data analysis on next-generation sequencing results.
Achievements:

- Multiple publications on various peer-review journals*

National Institutes of Health, Bethesda, MD

Oct 2012 – Sept 2015

Visiting Fellow

Molecular and cellular biology research on the regulation of planar cell polarity.

Of Note

* **Publications:** <https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3375531/>
<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4839765/>
<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4960540/>
<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC5724803/>