

Jun-Wei (Jim) Lin

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Education

- University of California, Irvine. Ph.D. in **Software Engineering**. GPA: 3.94/4.0 2016 – present
- National Tsing Hua University, Hsinchu, Taiwan. M.S., **Computer Science**. GPA: 4.0/4.0 2008
- National Tsing Hua University, Hsinchu, Taiwan. B.S., **Computer Science**. GPA: 3.07/4.0 2006

Technical Skills

- Programming Languages: Python (3+ year experience), Java, C++, JavaScript, SQL, Bash (basic familiarity).
- Web Development: Django, jQuery, Bootstrap.
- Continuous Integration: Jenkins, Robot Framework, Selenium, PhantomJS, JMeter.
- Machine Learning and Natural Language Processing: scikit-learn, gensim, NLTK, jieba.

Work Experience

Co-founder, Pycone Jan. 2017 – present

- Co-founded Pycone, a startup offering online Python courses (1600+ students).
- Designed and lectured an online course “Web Crawling with Python” (590+ students).

Graduate Student Researcher, University of California, Irvine Sep. 2016 – present

- Focusing on software testing research, especially on test suite reduction and test automation with machine learning and natural language processing techniques.
- Published peer-reviewed articles and conference papers with 100+ citations.

Software Engineering Intern, QNAP Inc., Taipei, Taiwan Summer 2016

- Automated manual testing and introduced automatic acceptance/regression testing flow for Q’Center, a centralized platform for managing multiple QNAP NAS.
- Shortened the regression cycle from days to hours.

Research Intern, National Agricultural Library, Beltsville, MD May 2014 – May 2015

- Initiated and implemented continuous integration for software projects under development.
- Designed and developed the queuing system and single sign-on for a public web service.
- Conducted automated functional, regression and stress testing on web services.

System Manager, Ministry of Justice, Taipei, Taiwan June 2012 – Sep. 2013

- Managed and executed \$800,000+ IT acquisition projects with customers and contractors.
- Developed an online bug tracking system (100+ daily users).

Projects

Kaggle Competition: Rainfall Prediction (7/126, top 6%) 2017

- Term project of CS 273A Machine Learning, Fall 2017. Used ensembles (e.g., Random Forest and XGBoost), feature engineering (e.g., missing data handling), and parameter tuning to predict rainfall at a location, based on processed infrared satellite image information

PTT Web Crawler (120+ Stars and 70+ forks on GitHub) 2015

- Created a crawler and data parser for the PTT website, the largest local online community in Taiwan (<https://github.com/jwlin/ptt-web-crawler>)

Bulletin Board for Government Jobs (700+ daily users) 2014

- Parsed and visualized open data from Taiwan’s government (<http://opencpa.castman.net>)

Awards

- Chair's Award and Graduate Dean's Recruitment Fellowship (\$7,500), UC Irvine, 2016
- Government Fellowship for Studying Abroad (\$42,000 for three years), Ministry of Education, Taiwan, 2014

Publications (Google scholar citations: 109) (<https://goo.gl/RpJDax>)

Conference Papers

- J.-W. Lin, R. Jabbarvand, J. Garcia, and S. Malek, "Nemo: Multi-Criteria Test-Suite Minimization with Integer Nonlinear Programming," International Conference of Software Engineering (ICSE 2018), Gothenburg, Sweden, May 2018. (21% acceptance rate).
- J.-W. Lin, F. Wang, and P. Chu, "Using Semantic Similarity in Crawling-Based Web Application Testing," 2017 IEEE International Conference on Software Testing, Verification and Validation (ICST), Tokyo, Japan, 2017, pp. 138-148 (27% acceptance rate)
- C.-Y. Wu, F. Wang, M.-H. Weng, and J.-W. Lin, "Automated Testing of Web Applications with Text Input," in 2015 IEEE International Conference on Progress in Informatics and Computing, Nanjing, 2015, pp. 343-347.
- J.-W. Lin, C.-Y. Huang, and C.-T. Lin, "Test suite reduction analysis with enhanced tie-breaking techniques," in 4th IEEE International Conference on Management of Innovation and Technology (ICMIT 2008), 2008, pp. 1228–1233.

Journal Papers

- M. Poelchau, C. Childers, G. Moore, V. Tsavatapalli, J. Evans, C.-Y. Lee, H. Lin, J.-W. Lin, and K. Hackett, "The i5k Workspace@NAL—enabling genomic data access, visualization and curation of arthropod genomes," Nucleic Acids Research, p. gku983, Oct. 2014.
- J.-W. Lin and C.-Y. Huang, "Analysis of test suite reduction with enhanced tie-breaking techniques," Information and Software Technology, vol. 51, no. 4, pp. 679–690, Apr. 2009.

Language

- Mandarin (fluent), Taiwanese (fluent)