

FANG-ZHOU JIANG

PERSONAL INFORMATION



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BIO

A dedicated Ph.D computer science student with strong analytic skills and solid engineering background. My Ph.D is in the area of improving mobile system performance exploiting aspects of human behaviors and associated context. Experience in handling and analyzing large datasets using advance data analysis and data mining tools and technologies. I am experienced in applying machine/deep learning models on real-world problems, and I also have interest in quantitative analysis on finance/investing as well as related modeling.

- Ph.D Thesis submission within 3 month.
- Rich Experience in both academic and industry R&D environment;
 - Telefonica Research and Development (Sep-Dec, 2017) in Spain.
 - National Institute of Informatics (NII) (Jan-July, 2016) in Japan
 - National ICT Australia (Oct 2013-Feb 2015)
- Experience working with large, often messy, datasets, with a focus on Mobile Data (i.e. Teleco Network Dataset; Multimedia dataset; Geographical data and User App/Behaviour Dataset etc).
- Experience in visualizing, presenting data and experiment results.
- Experience in Python, Linux, Cloud Computing (AWS, OpenStack cluster).
- Co-founding a start-up company utilizes deep learning and NLP algorithms to provide English student with instantaneous and quality feedback.

WORK EXPERIENCE

- Data61, CSIRO
(Prior NICTA)* *Oct,13–pst* Graduate Researcher,
DATA61 — Sydney
Data61 is the largest data innovation group in Australia bringing together CSIRO Digital Productivity team and National ICT Australia (NICTA). My work is in the area of improving mobile system performance exploiting human behavior and context.
NICTA/DATA61 · <http://www.csiro.au/en/Research/D61>
- Telefonica R&D* *Sep–Dec, 17* PhD Fellowship,
TELEFONICA RESEARCH AND DEVELOPMENT — Barcelona
I worked with Dr. Alessandro Finamore on mining and modeling mobility behaviors of large-scale mobile users.
TELEFONICA · <http://www.tid.es/>
- UNSW
Innovations* *Apr17-Apr18* Business Development Intern,
UNSW INNOVATIONS — Sydney
UNSW Innovations is the technology transfer and innovation office of UNSW Sydney. I work in collaboration with Business Development Managers on assessing new technologies and managing the commercialization process.
UNSW INNOVATIONS · <http://www.innovations.unsw.edu.au/>

Jan-Jul, 2016 Research Intern,
NATIONAL INSTITUTE OF INFORMATICS — Tokyo

NII I am 1 of the 2 recipients of National Institute of Informatics(NII) Intern Award under MOU program. In specific, I worked on two data-driven projects in the area of mobile content distribution and disaster preparation and response.
NII · <http://www.nii.ac.jp/en/>

EDUCATION

2015-Present The University of New South Wales, Australia

*Ph.D in
Telecommunications*

Field of Specialization:
Mobile Computing, Data Mining., Applied Machine Learning.
Supervisor: Prof. ARUNA SENEVIRATNE & Dr. KANCHANA THILAKARATHNA

2011-2014 The University of Sydney, Australia

*B.E in EE &
Telecommunications*

First Class Honors. THESIS WITH NICTA
Field of Specialization: *Computer Network.*
Supervisors: Prof. ARUNA SENEVIRATNE & A.Prof. RAFAEL CALVO

RELEVANT SKILLS

Languages PYTHON(PRIME), OMNET++, JAVA & C, C++

Python Libraries NUMPY, SCIPY, SKLEARN, IPYTHON, PANDAS, MATPLOTLIB, KERAS, NLTK

Databases MYSQL, SPARK (PySpark)

Skills L^AT_EX, RESEARCH, COMMUNICATION, TEAM WORK, PRESENTATION,
STATISTICS, ALGORITHMS, NETWORKS, SYSTEM OPTIMIZATION,
DATA ANALYTICS, DATA MINING, DATA VISUALIZATION, BIG DATA, MACHINE
LEARNING, CLOUD COMPUTING

OTHER INFORMATION

*Scholarships
& Awards* 2017 · Telefonica R&D PhD fellowship Award.

2017 · Winner of NASSCOM IT Technical Innovation Award (Australian Wide)
(Fully funded trip to TATA CONSULTANCY SERVICES, Chennai)

2016 · IEEE ICT-DM'16 Best Paper Award

2016 · National Institute of Informatics(NII) Intern Award (2 recipients)

2015-2018 · NICTA/Data61 enhanced Ph.D topup (< 5% success rate)

2015-2018 · RTP Ph.D scholarship (Australia Government Scholarship)

2015 · UNSW PRSS Travel Grant

2013-2014 · NICTA summer scholarship

Certificates 2012-2015 · High Performance Certificate in 2nd/3rd/4th year Advanced
Engineering & Advanced Engineering Certificate (USYD)

2014 · Tutor Training Certificate

2013 · NICTA summer intern Prize winner

VOLUNTEERING EXPERIENCE & COMMUNITY SERVICE

- TPC member of ICSNC17, Ubicomm17, ICT-DM17. ISC18.
- Reviewer

- **Conference:** IMC16, ICC16, PIMRC16, DSAA17, PAM17, WoWMoM18
- **Journals:** TOM, TMC, Internet Computing, TIIS.

2013 USYD school Mentor Volunteer

2014-2017 Conference volunteer: ACM CoNEXT'14, IEEE ICC'14, IFIP PERFORMANCE'15, PAM'17

Interests Photography · HiFi Music · Traveling · Investing · Coffee

LIST OF PUBLICATIONS

- IEEE* Data Science and Advanced Analytics; DASS'17
- 2017 Supercharging Crowd Dynamics Estimation in Disasters via Spatio-Temporal Deep Neural Network,. Authors: F.JIANG, L.Zhong, K. THILAKARATHNA, A. SENEVIRATNE, K.Takano, S.Yamada, and Y.Ji
- ACM* World Wide Wide; WWW'17 Companion
- 2017 Efficient Content Distribution in DOOH Advertising Networks Exploiting Urban Geo-Social Connectivity,. Authors: F.JIANG, K. THILAKARATHNA, M. HASSAN, Y.Ji and A. SENEVIRATNE
- Elsevier* Computer Communication
- 2017 Crowd- Cache: Leveraging on Spatio-Temporal Correlation in Content Popularity for Mobile Networking in Proximity,. Authors: K. THILAKARATHNA, F. JIANG, S. MRABET, M. Ali KAAFAR, A. SENEVIRATNE, G.XIE
- IEEE* Local Computer Network; LCN'16
- 2016 TransFetch: A Viewing Behavior Driven Video Distribution Framework in Public Transport. Authors: F. JIANG, Z LIU ,K. THILAKARATHNA, Z. LI, Y. Ji ,and A. SENEVIRATNE
- IEEE* ICT-DM'16 (Best Paper)
- 2016 Spatio-Temporal Data-Driven Analysis of Mobile Network Availability During Natural Disasters. Authors: L.ZHONG, K.TAKANO, F.JIANG, X.WANG, Y.Ji and S.YAMADA
- IEEE* Pervasive Computing and Comm; PerCom'16
- 2016 uDrop: Pushing Drop-Box to the Edge of Mobile Network. Authors: F. JIANG, K. THILAKARATHNA, S. MRABET, and M. A. KAAFAR
- Elsevier* Pervasive Mobile Computing
- 2015 Type , Talk , or Swype : Characterizing and Comparing Energy Consumption of Mobile Input Modalities. Authors: F. JIANG, E. ZAREPOUR, M. HASSAN, A. SENEVIRATNE, and P. MOHAPATRA
- IEEE* Local Computer Network; LCN'15
- 2015 SSIDs in the Wild: Extracting Semantic Information from WiFi SSIDs. Authors: S. SENEVIRATNE, F. JIANG, M. CUNCHE, and A. SENEVIRATNE
- ACM* Mobile Computing; MobiCoM'15 CHANTS
- 2015 A Spatio-Temporal Analysis of Mobile Internet Traffic in Public Transportation Systems: A View of Web Browsing from The Bus. Authors: F. JIANG, K. THILAKARATHNA, M. A. KAAFAR, F. ROSENBAUM , A. SENEVIRATNE
- IEEE* Pervasive Computing and Comm; PerCom'15
- 2015 When to Type, Talk, or Swype: Characterizing Energy Consumption of Mobile Input Modalities. Authors: F. JIANG, E. ZAREPOUR, M. HASSAN, A. SENEVIRATNE, and P. MOHAPATRA
- ACM* Mobile Systems, Apps, Services; MobiSys'14
- 2014 Demo: Crowd-cache: popular content for free. Authors: K. THILAKARATHNA, F. JIANG, S. MRABET, M. A. KAAFAR, A. SENEVIRATNE, and P. MOHAPATRA

April 9, 2018