

Quyu KONG

CONTACT INFORMATION

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RESEARCH INTERESTS

Information diffusion modeling in social media: stochastic modeling, online networks, computational social science, Hawkes processes, epidemic models

EDUCATION

PRESENT - MAR 2018	THE AUSTRALIAN NATIONAL UNIVERSITY <i>PhD candidate in Computer Science, affiliated with Data61, CSIRO.</i> Advised by Dr. Marian-Andrei RizoIU , Prof. Lexing Xie , and Dr. Stephen Wan Thesis Proposed Topic: <i>Linking Epidemic Models and Hawkes Point Processes for Modeling Information Diffusion</i>
DEC 2017 - FEB 2016	THE AUSTRALIAN NATIONAL UNIVERSITY <i>Advanced Master of Computing</i> Advised by Dr. Marian-Andrei RizoIU Research Topic: <i>Modeling Information Diffusion in Social Network</i>
AUG 2011 - JUN 2015	<i>Zhejiang University</i> <i>Bachelor of Agronomy</i>

PUBLICATIONS

- [1] **Kong, Quyu**, Marian-Andrei RizoIU, Lexing Xie. "Describing and Predicting Online Items with Reshare Cascades via Dual Mixture Self-exciting Processes." *In Proceedings of the 13th ACM International Conference on Information and Knowledge Management (CIKM)*. 2020.
- [2] **Kong, Quyu***, Rohit Ram*, Marian-Andrei RizoIU. "A Toolkit for Analyzing and Visualizing Online Users via Reshare Cascade Modeling" *Under review*. 2020.
- [3] **Kong, Quyu**, Marian-Andrei RizoIU, Lexing Xie. "Modeling Information Cascades with Self-exciting Processes via Generalized Epidemic Models" *In Proceedings of the 13th ACM International Conference on Web Search and Data Mining (WSDM)*. 2020.
- [4] **Kong, Quyu**. "Linking Epidemic Models and Hawkes Point Processes for Modeling Information Diffusion." *In Proceedings of the 12th ACM International Conference on Web Search and Data Mining (WSDM)*. 2019.
- [5] RizoIU, Marian-Andrei, Swapnil Mishra, **Quyu Kong**, Mark Carman, and Lexing Xie. "SIR-Hawkes: Linking Epidemic Models and Hawkes Processes to Model Diffusions in Finite Populations." *In Proceedings of the Web Conference (WWW)*. 2018.
- [6] **Kong, Quyu**, Marian-Andrei RizoIU, Siqi Wu, and Lexing Xie. "Will This Video Go Viral: Explaining and Predicting the Popularity of Youtube Videos." *In Companion Proceedings of the The Web Conference (WWW)*. 2018.

AWARDS

SEP 2020	SIGIR Student Travel Grant
NOV 2019	ANU CECS Dean's Travel Award
MAR 2018	Data61 PhD Scholarship
DEC 2017	ANU University Medal

TEACHING EXPERIENCE

JUN 2019	<i>Teaching Assistant at ANU</i>
- JUL 2017	COMP4650/COMP6490 Document Analysis, 2018 COMP4880/8880 Computational Methods for Network Science, 2019

WORK EXPERIENCE

FEB 2020	<i>Part-time Research Assistant at ANU</i>
- NOW	Developing an open source tool for modeling online information diffusions.
DEC 2017	<i>Working Part-time at Spinify</i>
- NOV 2016	<i>Fullstack Developer</i> Building an interactive web app for visualising staff performance in workplace. Highlights: web app, reactjs, nodejs, Amazon Lambda

TECHNICAL SKILLS

Programming Languages: R, Python (Django, Flask), Javascript (React, Node.js)

Web: Fullstack development and maintenance (Computational Media Lab Webmaster)

OPEN SOURCE PROJECTS

- **evently:** A package designed for simulating and fitting the Hawkes processes and the HawkesN processes with several options of kernel functions. Code is available at: <https://github.com/behavioral-ds/evently>
- **Hip-demo:** An interactive web visualizer written in R language with Shiny library which is deployed on hipie.ml. Code is available at: github.com/qykong/hipdemo