

# JIAXI HE

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Page: <http://jiaxihe.github.io> ◇ Kaggle: <http://www.kaggle.com/jessiehe>

## CAREER EXPERIENCES

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### Senior Data Scientist, National University of Singapore

Dec 2018 - present

Conducting research & demo development of a task-oriented dialog system.

Teaching courses and training sessions of deep learning and natural language processing.

### Senior Consultant, Deloitte Co Ltd, Shanghai, China

Dec 2017 - Dec 2018

Tech-leader for the legal contract review and document compliance review team.

Developed and commercialized a file-checking system combining deep learning and rule-based NLP.

Extracted information & name entities from legal documents and visualized the knowledge graph.

Carried out feasibility studies on building an anti-money laundering system.

### Data Scientist, Immersive Pty Ltd, Melbourne, Australia

Apr 2017 - Nov 2017

Assisted with speech recognition for audio files.

Assisted with developing a sentiment analysis tool for customers' feedback.

## ACADEMIC QUALIFICATIONS

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**Certificate**, Machine Learning Coursera Course by A.Y. Ng of Stanford University

Feb 2017 - Apr 2017

**Data Statistic Sprint Courses**, Swinburne University of Technology, Australia

Jan 2017 - Apr 2017

**Ph.D. in Computer Science**, Swinburne University of Technology, Australia

Sept 2012 - Mar 2017

**Master of Science**, University of Southern Denmark, Denmark, GPA: 10/12

Sept 2010 - Jul 2012

**Bachelor of Science**, Northwestern Polytechnical University, China, GPA: 90/100

Sept 2006 - Jul 2010

*summa cum laude* of the entire Department of Electronics of Northwestern Polytechnical University: rank 1/60

## AWARDS AND HONORS

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SUPRA Scholarship @ Swinburne 2012

Danish Government Scholarship 2010

Chinese Outstanding Graduate Award 2010

Chinese National Scholarship 2009

## RESEARCH PAPERS

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**Jiaxi He**, Frank Xing, Ran Yang, and Cishen Zhang (2019). Fast single image dehazing via multilevel wavelet transform based optimization. *IEEE Transactions on Image Processing*. submitted.

**Jiaxi He**, Cishen Zhang, Ran Yang, and Kai Zhu (2016). Convex optimization for fast image dehazing. *IEEE International Conference on Image Processing*. Phoenix, USA. pp 2246-2250.

**Jiaxi He**, Cishen Zhang, and Ifat-Al Bagee (2014). Image dehazing using regularized optimization. *International Symposium on Advances in Visual Computing*. Las Vegas, USA. pp 87-96.

## TECHNICAL COMPETENCIES

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<b>Programming</b>	Python (pandas, sklearn, NLTK, spaCy, tensorflow, pytorch, keras). R, Matlab, SQL, HTML.
<b>Language</b>	Fluency in English and Mandarin Chinese (speaking and writing).
<b>Licence</b>	SAS certificates for business analysis and advanced programming.
<b>Applications</b>	Latex, MySQL, R-studio, Git, Jupyter, Tableau, AWS cloud service, etc.

## BIG-DATA CHALLENGES

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**Traffic prediction challenge**, Shanghai Automotive Industry Corporation (car trajectory data) *Jul 2018*  
**Accusation prediction challenge**, Supreme People's Court Information Center (legal documents) *May 2018*  
**Diabetes prediction challenge**, Data Science Melbourne (patient health data) *May 2017*

## REFERENCE

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Mr. Zheng He (Former Employer), zhhe@deloitte.com.cn  
Prof. Cishen Zhang (Doctoral Advisor), cishenzhang@swin.edu.au

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