

# Lanzhou Jiang

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## CAREER SUMMARY

PhD Candidate trained in biochemistry and cell biology, with strong communication skills developed from extensive teaching and science writing experience and ability to work independently or as part of a team. Special expertise in the following areas:

- Data Analysis
- Experimental Design
- Critical Literature Review
- Molecular and Cellular Biology
- Confocal microscopy/Image processing
- Flow cytometry
- Histologic techniques
- Project management
- Presentation skills
- Data visualization

## EDUCATION

### PhD candidate in Biological and Biomedical Sciences

2015 - Current

La Trobe University

(Thesis submitted for examination; expected completion date of Aug 2019)

- La Trobe University Bruce Stone Award for Travel (Jul 2018)
- LIMS International Travelling Fellowship (Apr 2017)
- La Trobe University Full Fee Research Scholarship (Jun 2014)
- La Trobe University Postgraduate Research Scholarship (Jun 2014)

### Bachelor of Science

2010 - 2014

Nanjing University

- Overall WAM (Weighted average mark) of 86.30/100
- Awarded 'Outstanding graduate' by the president of Nanjing University

## RESEARCH EXPERIENCE

La Trobe University

*Graduate Researcher*

2015 - 2019

- Designed and executed novel biochemical and cell biology experiments to test the progression of cell death and apoptotic cell disassembly process.
- Developed novel flow cytometry/microscopy-based protocols to identify apoptotic bodies and characterize apoptotic bodies based on their contents and surface markers.
- Performed statistical analysis on data sets using Excel and Prism GraphPad.
- Performed microscopy imaging analysis using FIJI(ImageJ) and Imaris.
- Collaborated with multiple research groups to help with cell death related studies.
- Supervised and trained 2 undergraduate students.

## TRAINING/CERTIFICATIONS

- Completed 'Working with Recombinant DNA', 'Animal Ethics', 'Human Ethics' and 'Conduct of Research' (online training course, La Trobe University, 2015)
- PC1 and PC2 laboratory safety training
- Current Working with Children Check

## SKILLS

Language: English – Full professional proficiency, Chinese – Native or bilingual proficiency,  
Computer Skills: Proficient in MS Office Suite, Adobe Photoshop & Illustrator, FIJI (ImageJ), Imaris, FlowJo, Prism GraphPad, coding (C++, python).  
Interests: Graphic Design, Drawing, Digital painting.

## LEADERSHIP/TEAMWORK EXPERIENCE

### RMIT

*Data Scientist Intern at RMIT University, CRUISE Research Group*

- Participate in a research project about human physiological synchrony. Conducted data analysis using Numpy, Pandas, and Scikit-learn.
- Participate in data visualization projects, using Matplotlib to create charts and display experimental data.

### Sci-illustrate

*Intern*

**2018**

- Drafted descriptions on selected topics (e.g. cell biology, neural science) in collaboration of designers for their artwork posts.
- Provided new biological science related topics for artists/designers.

### La Trobe University

*Laboratory Demonstrator*

**2017-2018**

- Demonstrated as a head demonstrator in SHE Outreach program at La Trobe University.
- Introduced high school students to University-level scientific research related to immunology and virology.
- Prepared course material including laboratory experiments, lectures and practice problems in collaboration with other demonstrators.

### Teaching assistant

**2016**

- Prepared course material including laboratory experiments for practical classes (Master student workshop).
- Supported students with confocal microscope experiments and imaging analysis.

### Douban

*Freelance Translator*

**2015**

- Translated an English book to Chinese in collaboration with other translators.

## HONORS/AWARDS

- Chinese government award for outstanding self-finance students abroad (2018)
- The Popular Vote Prize for La Trobe University “Visualize Your Thesis (VYT) competition” (Aug 2018)
- Best Presentation Award for 10th CAPS (Chinese Association of Professionals and Scholars, Australia) three-minute oral competition (Nov 2017)
- Light Microscopy Australia student bursary (Jan 2017)
- La Trobe University, Department of Biochemistry and Genetics, Three Minute Thesis (3MT) Competition Winner and People’s choice award (May 2016)
- The 2nd Prize of the Five Minutes Science Presentation Competition, Australia-China Biomedical Research Conference (Nov 2015)

## PUBLICATIONS

- **Jiang, L.\***, Tixeira, R.\*, Caruso, S., Atkin-Smith, G. K., Baxter, A. A., Paone, S., ... & Poon, I. (2016). Monitoring the progression of cell death and the disassembly of dying cells by flow cytometry. *Nature protocols*, 11(4), 655-663. [IF=15.086; citation=35] \*Co-first author.
- **Jiang, L.\***, Paone, S.\*, Caruso, S., Atkin-Smith, G. K., Phan, T. K., Hulett, M. D., & Poon, I. (2017). Determining the contents and cell origins of apoptotic bodies by flow cytometry. *Scientific Reports*, 7(1), 14444. [IF=4.525; citation=15] \*Co-first author.
- **Jiang, L.\*** & Poon, I.\* (2018). Methods for monitoring the progression of cell death, cell disassembly and cell clearance, currently accepted by *Apoptosis*. [IF=4.021; citation=1] \*Corresponding author.
- Théry, C., Witwer, K., Aikawa, E., ... **Jiang, L.**, ... Zocco, D. & Zuba-Surma, E. (2018) Minimal information for studies of extracellular vesicles 2018 (MISEV2018): a position statement of the International Society for Extracellular Vesicles and update of the MISEV2014 guidelines. *J Extracell Vesicles* 8(1). [IF=11.00; citation=228]
- Poon, I., Parkes M.A.F., **Jiang, L.**, et al. (2019) Moving beyond size and phosphatidylserine exposure: evidence for a diversity of apoptotic cell-derived extracellular vesicles in vitro. *J Extracellular Vesicles* 8(1). [IF=11.00]
- Zhao, K., Bleackley, K., Chisanga, D., Gangoda, L., Liem, M., Kalra, H., Al Saffar, H., Keerthikumar, S., Ang, C.S., Adda, C.G., **Jiang, L.**, Yap, K., Poon, I., Lock, P., Bulone, V., Anderson, M. & Mathivanan, S. (2018) Novel cell wall remodeling functions of extracellular vesicles secreted by *Saccharomyces cerevisiae*, recently accepted by *Commu Biol*.
- Liu, C., Malek, M., Poon, I., **Jiang, L.**, Sheppard, C. J., Roberts, A., ... & Depeursinge, C. (2019) Simultaneous dual-contrast three-dimensional (3D) imaging in live cells with fluorescence-enabled optical diffraction tomography, recently accepted by *Photonics Res*. [IF=5.242]
- Caruso, S., Atkin-Smith, G., Baxter, A., Tixeira, R., **Jiang, L.**, Ozkocak, D., Santavanond, J., Hullet, M., Lock, P., Phan, T.K., Poon, I. (2019) Defining the role of cytoskeletal components in the formation of apoptopodia and apoptotic bodies during apoptosis, recently accepted by *Apoptosis*. [IF=4.021]
- Samuel, M., Gangoda, L., Keerthikumar, S., Spurling, A., Ang, C.S., Vennin, C., Lucas, M.C., Cheng, L., Herrmann, D., Pathan, M., Chisanga, D., Warren, S., Fonseca, P., Abraham, N., Anand, S., Boukouris, S., Adda, C.G., **Jiang, L.**, ... Parker, B.S. & Mathivanan, S. (2018) Oral administration of bovine milk-derived extracellular vesicles induces senescence in the primary tumor but accelerate cancer metastases, currently under revision with *Cell Metabolism*.

## CONFERENCES AND PRESENTATIONS

### Oral presentations

- **Jiang L**, Tixeira R, Atkin-Smith GK, Caruso S, Phan TK, Baxter AA, Hulett MD & Poon IKH. Asymmetrical disassembly of apoptotic cells and the mechanisms underpinning this process. **Combio2018**, Sydney, Australia.
- **Jiang L**, Atkin-Smith GK, Paone S, Tixiera R, Caruso S, Hulett MD, Poon IKH. A study of the progression of apoptotic cell disassembly using confocal microscopy. **LMA (Light Microscopy Australia) 2017 Conference**, Melbourne, Australia.

- **Jiang L**, Tixeira R, Paone S, Caruso S, Atkin-Smith GK, Baxter AA, Hulett MD & Poon IKH. Monitoring the progression of cell death and detailed characterization of apoptotic bodies by flow cytometry. **The 10th Research Symposium for Chinese PhD Students and Scholars in Australia**, 2017, Melbourne, Australia.
- **Jiang L**, Tixeira R, Paone S, Caruso S, Atkin-Smith GK, Baxter AA, Hulett MD & Poon IKH. Monitoring the progression of cell death and disassembly of dying cells by flow cytometry. **The 5th Australia-China Biomedical Research Conference**, 2015, Melbourne, Australia.
- **Jiang L**. The microanatomic segregation of selection by apoptosis in the germinal center (Science, 2017), **Research Centre for Extracellular Vesicles Projects and Journal Club presentation**, 2018, Melbourne, Australia.

#### Poster presentations

- **Jiang L**, Tixeira R, Paone S, Caruso S, Atkin-Smith GK, Baxter AA, Hulett MD & Poon IKH. Monitoring the progression of cell death and detailed characterization of apoptotic bodies by flow cytometry. **ISEV2017**, International Society for Extracellular Vesicles Annual Meeting, Toronto, Canada.
- **Jiang L**, Tixeira R, Paone S, Caruso S, Atkin-Smith GK, Baxter AA, Hulett MD & Poon IKH. Monitoring the progression of cell death and detailed characterization of apoptotic bodies by flow cytometry. **Young Scientist Forum on Cell Death and Survival**, 2016, Melbourne, Australia.
- **Jiang L**, Tixeira R, Paone S, Caruso S, Atkin-Smith GK, Baxter AA, Hulett MD & Poon IKH. Monitoring the progression of cell death and disassembly of dying cells by flow cytometry. **Japan Australia Meeting on Cell Death**, 2015, Melbourne, Australia.

#### Referee 1

Name of Referee  
**Ivan Poon**

Organisation  
**La Trobe Institute for Molecular Science**

Referee's Position  
**Group leader, NHMRC Career Development Fellow**

Telephone (inc. area code)  
**+61 417337727**

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**i.poon@latrobe.edu.au**

Relationship to Applicant  
**Supervisor**

#### Referee 2

Name of Referee  
**Mark Hulett**

Organisation  
**La Trobe Institute for Molecular Science**

Referee's Position  
**Professor**

Telephone (inc. area code)  
**+61 3 9479 6567**

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**m.hulett@latrobe.edu.au**

Relationship to Applicant  
**Co-supervisor**