

# Georgia Tsambos

🔗 [gtsambos.github.io/](https://gtsambos.github.io/)

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## Education

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### Doctor of Philosophy (Statistical Genetics)

*University of Melbourne*

*Aug 2017 – Present*

- Working project title: 'A statistical study of genetic admixture and ancestry'
- Supervised by Damjan Vukcevic and Stephen Leslie at Melbourne Integrative Genomics.
- Was confirmed in August 2018.
- Visited the University of Oxford between May - August 2019 to collaborate with researchers in Jerome Kelleher's group at the Big Data Institute.

### Master of Science (Statistics and Stochastic Processes)

*University of Melbourne*

*Feb 2015 – Nov 2016*

- Completed with Distinction.
- Thesis work supervised by Damjan Vukcevic and Stephen Leslie.

### Bachelor of Advanced Mathematics (Hons) (Pure Mathematics)

*University of New South Wales*

*Mar 2009 – Dec 2013*

- Honours project work in functional analysis and dynamical systems was supervised by Gary Froyland and Cecilia Gonzalez-Tokman.
- Received First Class Honours with a final mark of 91.

### Bachelor of Arts (Political Economy)

*University of New South Wales*

*Mar 2009 – Dec 2012*

## Recent professional activities

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### Paid roles.....

#### Research assistant

*Melbourne Integrative Genomics, University of Melbourne*

*Feb 2017 - Feb 2018*

- Helped to develop software pipelines for large-scale imputation of human immune system genes in the Leslie lab.

#### Summer researcher

*Climate Change Research Centre, University of New South Wales*

*Nov 2014 - Feb 2015*

- Completed a project about the influence of soil moisture variability on Australian climate extremes under the supervision of Dr Ruth Lorenz.

#### Teaching assistant and sessional tutor

*Faculties of Science and Engineering, UNSW*

*Feb 2013 - Nov 2014*

- SCIF1121, SCIF1131, MMAN3000, MATH1141
- See 'Details of teaching roles' for more information.

#### Summer cadet

*Reserve Bank of Australia, Economic Research Division*

*Nov 2013 - Feb 2014*

- Completed a project about the relationship between home prices and economic consumption/household spending.
- Helped write internal notes.

## Unpaid roles.....

### **Young Statistician's Representative (Victoria)**

*Statistical Society of Australia*

*Mar 2017 - present*

- Organise all branch events targeted at members who are students or in the early stages of their careers.
- Recent events have included networking evenings, the Young Statisticians Showcase for graduate research, careers panels.

### **President, various other roles**

*Statistics and Mathematics Postgraduate Society, Unimelb*

*May 2015 - present*

- Led and represented the society.
- Oversaw the overall direction of the society's activities and events.
- Advocated for the interests and wellbeing of maths students to the School and the rest of the University.

### **Subject tutor**

*Curious Minds*

*Dec 2015 - May 2017*

- Provided academic support and pastoral care.
- Curious Minds is a STEM-themed camp and academic program for high school girls from rural, indigenous and low socio-economic backgrounds.

### **Public Relations Officer**

*UNSW Mathematics Society*

*Mar 2011 - Mar 2012*

- Was responsible for communication between the society and its members.
- Maintained and monitored the society's social media pages.

### **Subject tutor**

*The Shack, UNSW*

*Mar 2011 - Dec 2011*

- Taught Mathematics and Economics to local school students from under-privileged backgrounds.

## Awards, prizes and scholarships

### **Maurice Belz travel award**

*School of Mathematics and Statistics, University of Melbourne*

*Mar 2019*

- Is funding my 2019 trip to the University of Oxford.

### **Research Training Scheme Stipend**

*Australian Government*

*Aug 2017 - present*

### **EGJ Pitman Prize (runner up)**

*Statistical Society of Australia/ conference organisers*

*Dec 2016*

- For best student talk at the 2016 Australian Statistical Conference.
- (Note: this is typically awarded to PhD students!)

### **Travel award**

*Statistical Society of Australia*

*Nov 2016*

- Funded my travel to the Australian Statistical Conference 2016.

**Helen R Freeman scholarship**

*University of Melbourne*

*Jul 2015 - Nov 2016*

**Faculty of Science Vacation Research Scholarship**

*University of New South Wales*

*Nov 2011*

- Funded my research into matrix representations of Lie algebras under the supervision of Prof. Michael Cowling.

**Faculty of Science Undergraduate Scholarship**

*University of New South Wales*

*Apr 2009 - Nov 2013*

**Various awards for High School Certificate results**

*University of New South Wales/Australian Government*

*2009*

- UNSW Scientia scholarship
- Australian Student Prize
- UNSW Academic Achievement Prize

## Details of teaching roles

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**Undergraduate research supervisor**

*School of Mathematics and Statistics, University of Melbourne*

*Jan 2019 - Feb 2019*

- Provided primary supervision for Zheng Fan's summer project.
- Title: 'Meta-analysis with a general genetic model'

**Teaching assistant and sessional tutor**

*Faculties of Science and Engineering, UNSW*

*Feb 2013 - Nov 2014*

- Facilitated (lively!) class discussions and gave seminars in weekly 'lectorials'.
- Was the primary tutor in Advanced Science Seminar subjects, a compulsory course that asks junior science students to consider the impact of science on society (SCIF1121, SCIF1131, MMAN3000).
- Was a first-year calculus class tutor (MATH1141).

**Subject tutor**

*The Shack, UNSW*

*Feb 2011 - Dec 2011*

- Taught HSC-level Mathematics and Economics to local school students from under-privileged backgrounds.

## Conferences and invited talks

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**Society for Molecular Biology and Evolution**

*Efficient simulation of introgression, admixture and local ancestry*

**Manchester, UK**

*July 2019*

**Quantitative Genomics**

*Efficient simulation of introgression, admixture and local ancestry*

**London, UK**

*June 2019*

## GeneMappers

*Accounting for disease diversity in genetic association studies*

Geelong, Australia

Apr 2017

## Australian Statistical Conference

*Accounting for disease diversity in genetic association studies*

Canberra, Australia

Dec 2016

- Was awarded the runner-up Pitman Prize for the best student talk.

## Professional affiliations

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### Society for Molecular Biology and Evolution

Member

2019 - present

### Statistical Society of Australia

Member

2016 - present

## References

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### Damjan Vukcevic

Lecturer in Statistical Genomics

University of Melbourne

Melbourne, Australia

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### Jerome Kelleher

Senior Statistical Programmer

Big Data Institute, University of Oxford

Oxford, United Kingdom

✉ jerome.kelleher@well.ox.ac.uk

### Stephen Leslie

Associate Professor in Statistical Genomics

University of Melbourne

Melbourne, Australia

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### Peter Ralph

Associate Professor

Departments of Mathematics and Biology,

University of Oregon

Eugene, Oregon, USA

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