

# Curriculum Vitae

## Jason Nassios

**Residency Status** Australian resident  
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### Education

**PhD (Mathematics and Statistics)**  
**February 2010 – February 2013**  
**Department of Mathematics and Statistics**  
**The University of Melbourne**

- Thesis title – “*Oscillatory Flows of a Slightly Rarefied Gas: A Kinetic Theory Investigation*”.
- Supervisor – Professor John E. Sader.
- Member of a diverse group of 12 personnel, including honours, PhD and post doctorate students.
- **Highly developed, generic and transferrable research, presentation and analytical skills.**

**Bachelor of Commerce/Bachelor of Science (Honours)**  
**March 2004 – November 2009**

**The University of Melbourne**

- Majors in Finance, Economics, Mathematics and Physics.
- Honours: Applied Mathematics (2008)
  - Thesis titled “*Kinetic theory and the BGK equation: Gas dynamics for the nanoscale*” was supervised by Professor John E. Sader.

### Employment Experience

**Research Fellow**  
**April 2015 – Present**  
**Centre of Policy Studies**  
**Victoria University**

**Senior Investments Analyst/Associate**  
**February 2013 – April 2015**

**Mercer Investments Australia**

Reporting to Client Relationship Managers, Lead Consultants, Project Managers and Research Division Heads, my core consulting responsibilities included the provision of Investment Strategic Asset Allocation and Fund Manager selection advice, ongoing regulatory risk monitoring, and compliance/performance reporting to institutional clients.

- **Broad Customer Focus.**
- **Commercially astute with an eye for detail.**
- **Highly developed presentation skills.**
- **Analytical Acumen with Industry Focus.**

**Senior Tutor**  
**February 2009 – November 2012**

**The University of Melbourne and Newman Residential College**

- Exposure to a breadth of undergraduate and Masters level subjects:
  - **First Year Level:** Quantitative Methods I and Calculus 2;
  - **Second Year Level:** Business Finance;
  - **Masters Level:** Quantitative Methods for Business.
- Supervised an average of five classes of 20 students per week each semester.
- **Team focused collaborator.**
- **Clear communicator with strong interpersonal skills.**

### Academic and Research Publications

- Jason Nassios, supervised by John E. Sader. ***Kinetic Theory and the BGK Equation: Gas Dynamics for the Nanoscale***. Honours Thesis, The University of Melbourne Department of Mathematics and Statistics, November 2008.
- Jason Nassios and John E. Sader. ***Asymptotic analysis of the Boltzmann-BGK equation for oscillatory flows***. Journal of Fluid Mechanics, October 10, 2012.
- Jason Nassios and John E. Sader. ***High frequency oscillatory flows in a slightly rarefied gas according to the Boltzmann–BGK equation***. Journal of Fluid Mechanics, August 25, 2013.
- Jason Nassios. ***Kinetic Theory of Rarefied Gas Flows with Modern Applications***. AUSTMS Gazette Invited Contribution, March 2013.
- Jason Nassios, supervised by John E. Sader. ***Oscillatory Flows of a Slightly Rarefied Gas: A Kinetic Theory Investigation***. PhD Thesis, The University of Melbourne Department of Mathematics and Statistics, August 2013.
- Jason Nassios, Ying Wan Yap and John E. Sader. ***Flow generated by oscillatory uniform heating of a rarefied gas in a channel***. Journal of Fluid Mechanics, 2016.
- Janine Dixon and Jason Nassios. ***Modelling the impacts of a cut to company tax in Australia***. CoPS/Impact Working Paper G-260, 2016.
- Jason Nassios, James A. Giesecke, Peter B. Dixon and Maureen T. Rimmer. ***Comparing the Impacts of Financial Regulation in Australia and the United States via Simulation with Country-specific Financial CGE Models***. CoPS/Impact Working Paper G-263, 2016.
- Jason Nassios, James A. Giesecke, Peter B. Dixon and Maureen T. Rimmer. ***A Modelling Framework for analysing the role of Superannuation in Australia's Financial System***. CoPS/Impact Working Paper G-263, 2016.
- Jason Nassios, James A. Giesecke, Peter B. Dixon and Maureen T. Rimmer. ***Superannuation and Macroeconomic Growth and Stability***. CoPS/Impact Working Paper G-267, 2016.
- Jason Nassios, James A. Giesecke. ***Informing ex-ante event studies with macro-econometric evidence on the structural and policy impacts of terrorism***. Under consideration for publication in Risk Analysis, 2017.

### Conferences and Presentations

- Jason Nassios. ***Modern applications of Kinetic Theory: High Frequency Oscillatory Gas Flows***. ANZIAM Conference, February 2011.
- Jason Nassios. ***Flow without moving parts: Asymptotic Analysis with application to the Oscillatory Thermal Creep Problem***. ANZIAM Conference, February 2012.
- Jason Nassios. ***Asymptotic analysis of the Boltzmann-BGK equation for oscillatory gas flows with applications to nanoscale devices***. MMEC Seminar Series, Department of Mechanical Engineering MIT, November 2012.
- Jason Nassios and John E. Sader. ***Asymptotic analysis of the Boltzmann-BGK equation for oscillatory gas flows with application to thermal creep***. APS Division of Fluid Dynamics Conference, November 2012.
- Jason Nassios. ***Are Intellectual Property Rights just a lot of hot air?*** Mercer Global Investment Forum Melbourne. March 2015.
- Jason Nassios and James A. Giesecke. ***Informing ex-ante event studies with macro-econometric evidence on the structural and policy impacts of terrorism***. 19<sup>th</sup> Annual Conference on Global Economic Analysis. June 2016.
- J. Nassios (with J.A. Giesecke, P.B. Dixon and M.T. Rimmer), ***"A Modelling Framework for analysing the role of Superannuation in Australia's Financial System"***, Presentation to the CSIRO-Monash Superannuation Research Cluster, Melbourne, Thursday 15th September 2016.
- J. Nassios, Giesecke, J.A., (with P.B. Dixon and M.T. Rimmer), ***"Policy analysis with the VU-Nat Financial CGE model of Australia"***, Presentation to the Retirement Income Group, Commonwealth Treasury, Melbourne, Thursday 27th October 2016.

- J. Nassios, Giesecke, J.A. (with P.B. Dixon and M.T. Rimmer), “**Policy analysis with the VU-Nat Financial CGE model of Australia**”, Presentation to the Australian Institute of Superannuation Trustee Policy and Governance Committee, AIST Offices, Spring Street Melbourne, Thursday 24th November 2016.
- Jason Nassios and James A. Giesecke. **Informing ex-ante event studies with macro-econometric evidence on the structural and policy impacts of terrorism**. Presentation at the Price School of Public Policy, University of Southern California, Friday 2 December 2016.
- Jason Nassios and James A. Giesecke (with Peter B. Dixon and Maureen T. Rimmer). **Financial CGE model assessments of the economic effects of higher bank capital requirements in Australia and the U.S.** Presentation delivered at the Bank of England (London), the University of California (Davis) Department of Economics Macro/International Economics Seminar Series, US International Trade Commission (Washington, D.C.) and the San Francisco Federal Reserve Bank Economic Research Unit (San Francisco), 2016.

#### Awards and Prizes

- Mercer SPOT Award (2014)
- T. M. Cherry prize, ANZIAM Conference (2012)
- Australian Postgraduate Award (2010 – 2013)
- Fred Knight Scholarship (2010)
- Dean’s Honours List - Commerce (2007 and 2009) and Science (2006)
- Dixon Scholarship in Applied Mathematics III (2007)

#### Computing Expertise

- Extensive training in Computational Mathematics and Computational Physics
  - Well versed in languages including TABLO, C, MATLAB, Mathematica, E Views, SAS and VBA.
- Proficient in the use of multiple operating systems (Microsoft Windows, Linux, Mac OS) and network design
  - High level development in preparation of documents, spreadsheets and presentations using Microsoft Office suite products, Adobe Creative Suite and LaTeX.
  - Experienced in coding sophisticated computable general equilibrium models in GEMPACK.

**Professional Memberships****Australian and New Zealand Industrial and Applied Mathematics (ANZIAM) Member***November 2010 - Present***American Physical Society Member***July 2012 - Present***Other Interests**

- Play competitive tennis weekly, and enjoy recreational cycling and golf.
- Active volunteer with Wildlife Victoria since 2013.