ANDREW JAMES MORGAN

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Education

- **The University of Melbourne**—Parkville, 31'st of March, 2009 - 2'nd of August, 2013
  Doctor of Philosophy
  - With the Theoretical Condensed Matter Physics Group in the School of Physics.
    Thesis title: A generalised holographic approach to coherent diffractive imaging
- **The University of Melbourne**—Parkville, 2004-2008
  Bachelor of Science (Degree with Honours) - (Honours - H1)
  - With majors in: Mathematics and Statistics, Physics
    Thesis title: Temporal and spatial incoherence in atomic resolution scanning transmission electron microscopy

Experience

- **The University of Melbourne**—Parkville, 2008-2013
  PhD candidate in the theoretical condensed matter physics group
  - Theoretical work on coherent diffractive imaging in scanning transmission electron microscopy.
  - Theoretical work regarding spatial and temporal coherence in scanning transmission electron microscopy.
  - Theoretical and experimental work on new direct retrieval method for coherent diffractive imaging.
- **The University of Melbourne**—School of Physics, Faculty of Science, 2009-2013
  Tutor and Demonstrator
  - Demonstrated 1^{st} and 2^{nd} year physics laboratories consisting of 10-15 students.
  - Tutored 1^{st} year *Physics 1* classes.
- **Queen's College at The University of Melbourne**—August-November 2013
  Resident Tutor (stand-in)
  - Tutored 1^{st} year *Physics 1* classes.
- **Monash University**—Clayton, August-November 2013
  Teaching Associate
  - With Dr Scott Findlay at the School of Physics.
- **The Deutsches Elektronen-Synchrotron**—November 2013-March 2018
  Centre for Free-Electron Laser Science
  Postdoctoral Researcher
  - With Prof. Doc. Henry Chapman in the Coherent Imaging Division.
- **The University of Melbourne**—School of Physics, Faculty of Science, May 2018-December 2020
  Research Fellow in Biomolecular Imaging
  - With Prof. Harry Quiney at the Centre of Excellence for Advanced Molecular Imaging.
- **The University of Melbourne**—School of Physics, Faculty of Science, December 2020-Present
  ARC Discovery Early Career Researcher
  - With Prof. Harry Quiney.

- **The University of Melbourne**—School of Physics, Faculty of Science, 2020-Present
  Lecturer
  - Lecturer for the first four weeks of Energy and the Environment (EVSC20006)

Achievements

- Active member of the scientific community with a h-index of 19[1] and numerous publications (2021).
- Recipient of the Discovery Early Career Researcher Award (2020).
- Recipient of the 2018 Microscopy Today Innovation Award.
- PSRS Award for best scientific publication (2018).
- Awarded the David Hay Postgraduate Writing-Up Award (2013).
- Awarded Australian microscopy and microanalysis society travel bursary- Perth (2012).
- Awarded Australian microscopy and microanalysis society travel bursary- Brisbane (2010).
- Recipient of the University of Melbourne Overseas Research Experience Scholarship (ORES).
- Recipient of the Australian Postgraduate Award (2006).

Professional Skills and Research Interests

- **Research areas:** scattering and imaging, x-ray free-electron laser science, molecular biology, scientific computing and data analysis.
- **Programming Languages:** expert in Python, Fortran, Latex and qBasic. Proficient in C, C++, HTML and SQL. Familiarity with UNIX shell, javascript and Perl.

References

- Professor Leslie J. Allen
  Former head of the Theoretical Condensed Matter Physics Research Group
  The University of Melbourne
  School of Physics 3010, Australia.
  Phone: +61 3 8344 7402
  Email: lja@unimelb.edu.au
- Prof. Dr. Dr. H. C. Henry Chapman
  Center for Free-Electron Laser Science
  DESY / Universität Hamburg
  Notkestrasse 85 22607 Hamburg, Germany
  Phone: +49 40 8998 4155
  Email: henry.chapman@desy.de
- Professor Harry Quiney
  Deputy Head of School
  The University of Melbourne
  School of Physics 3010, Australia.
  Phone: +61 3 8344 5088
  Email: quiney@unimelb.edu.au

[1] Source: https://scholar.google.com.au