

Dan Uehara

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DOB: 20/07/1988

Address: Jegerveien 17F, Oslo 0777 Norway

Education

2018 – 2020

Masters of Assessment, Measurement and Evaluation – University of Oslo; Faculty of Educational Sciences

- **Thesis Title:** Classification accuracy of equated item response theory (IRT) scores and sum scores under IRT model misspecification
- **Supervisor:** Associate Professor Björn Andersson

2012 – 2018

Doctor of Philosophy (PhD) in Geoscience (*Did not graduate*) - Monash University; Department of Earth, Atmosphere and Environment

- **Thesis Title:** Understanding the flow behaviour and deposit characteristics of block and ash pyroclastic flows, and comparison with debris flow deposits: 1990-1995 Mount Unzen Eruption, Kyushu, Japan
- **Supervisors:** Emeritus Professor Ray Cas; Dr. Chris Folkes

February 2011 - November 2011

Honours in Geoscience – Monash University; Department of Earth, Atmosphere and Environment

- **Thesis Title:** Geophysical and volcanological study of the Mt Leura Volcanic Complex Volcano in the Newer Volcanics Province, western Victoria, Australia
- **Supervisor:** Emeritus Professor Ray Cas; Dr. Laurent Ailleres
- First Class Honours (H1) for final thesis

2007 - 2010

Bachelor of Science – Monash University

- Double Major in Geoscience
- Minor in Mathematics and Physics

Employment

August 2020 – Present

University of Oslo – Institute of Pedagogy (IPED) and the Centre on Experiential Legal Learning (CELL)

Research Assistant to Associate Professor Crina Damsa and Professor Malcolm Langford

- Assist with the quantitative analysis of student and teach surveys on online teaching during the COVID pandemic
- Help with writing journal articles, conference articles and reports

July 2019 – January 2020

University of Oslo - Centre for Educational Measurement

Student Assistant to Associate Professor Bjorn Andersson

- Extended the code for an R package related to Kernel equating called “kequate”
- Coded partial derivatives and other statistical equations to improve the package

January 2019 – June 2019

University of Oslo - Centre for Educational Measurement

Student Assistant to Professor Johan Braeken

- Assisted lecturer in developing support material for the Assessment, Measurement and Evaluation masters course 1st year Data Science subject (MAE4000)
- Identify and resolve issues in course material, specifically programming in R
- Used Rmarkdown and Shiny to develop applications

December 2017 – July 2018

University of Oslo – The Centre for Earth Evolution and Dynamics

Laboratory assistant – The Ivar Gjøver Geomagnetic Laboratory

- Assisted a PhD student with collection of paleomagnetic data using various paleomagnetic instruments

2015 - 2017

Monash University- Matheson Library

Casual Collection and Facilities Library staff

- Assisted Subject Librarians and Research and Learning staff with specific jobs such as organising catalogues (e.g. rare books)

2011 - 2015

Monash University

Casual Research Assistant and Field Assistant

- Assisted Emeritus Professor Ray Cas with field trips (undergraduate and industry professionals)

2012 - 2014

Monash University

Laboratory Demonstrator/Tutor

- Communicating important geological principles for undergraduate students (1st year to Honours students)

November 2010 - February 2011

Minerals and Metals Group (MMG)

Vacation Student – Exploration Team Librarian

- Responsible for library catalogue and cataloguing of journal articles, books and company reports
- Maintaining company reference database in Microsoft Access

Programming and Software Skills

- Extensive knowledge of R including:
 - Designing Monte Carlo simulations
 - Application of statistical methods and models (multivariate regression, item response theory, structural equation modelling, multilevel modelling, causal inferences, latent profile/class analysis)
 - Using RMarkdown (shiny and Latex)
- Moderate knowledge in MATLAB
- High level skills in Adobe Illustrator and Photoshop

Publication

- D. Uehara, R.A.F. Cas, C. Folkes, S. Takarada and M. Porreca (2015) “Using Thermal Remanent Magnetisation (TRM) to understand emplacement temperatures of block and ash flow and debris flow deposits, and to distinguish them: 1991-1995 Lava dome eruption, Mt Unzen Volcano, Japan” *Journal of Volcanology and Geothermal Research* (13 Citations to date on Google Scholar)
- C. Damsa, M. Langford, D. Uehara (2020) “Agency and contingency during COVID-19: Academic teachers’ experiences and challenges with emergency online teaching”; submitted and under review in *Computers in Human Behavior*

Other Relevant Scientific Publications

- L.T. Henriksen, D. Uehara, C. Damsa (2020) “Exploring university students’ ecologies of digital resources in the context of disciplinary learning”; submitted to *ISLS Annual Meeting 2021*
- D. Uehara, L.T. Henriksen, C. Damsa (2020) “Exploring university students’ ecologies of digital resources in the context of disciplinary learning”; submitted to *JURE 2021*
- Ø. K. Kvalø, M. Langford, B. Stensaker, M. S. Stokke, D. Uehara, & H. Westbye (2020) *Hjemmeeksamen i koronatiden* (No. 2020/5). CELL: Centre for Experiential Legal Learning.

References

Name: Associate Professor Crina Damsa

Relation: Current employer

Contact: crina.damsa@iped.uio.no

Phone: +47 22840725

Name: Associate Professor Björn Andersson

Relation: Former master's supervisor

Contact: bjorn.andersson@cemo.uio.no

Name: Professor Malcolm Langford

Relation: Current employer

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