Teaching Statement: Dr. Gareth W. Peters

Contact Information

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Lecturing Summary

A basic summary of my lecturing output since 2003 can be found in the table below. I have qualified from 2 University teaching programs, the first was at the University of New South Wales as part of the lecturer 3 year probation program, before I received tenure in the Mathematics and Statistics department there. Then when I move to the Department of Statistical Science, University College London, I again qualified after 1 year of probation for the lecturing qualification.

I have had a range of experience in lecturing including sole lecturer for large service courses with 866 students (2nd year statistics service course); 540 students (1st year statistics service course) as well as specialized advanced statistical courses which included Actuarial exemptions (Australia Institute of Actuaries). In addition, I have designed new courses and written the syllabus, material for notes, class exercises and exams on 4 separate courses. The first was a Masters level course on Machine learning and statistical methods, the second was a Masters level course on time series modelling, the third was a PhD level course on insurance modelling with an emphasis on ruin theory and the third involved a Masters level course on operational risk and insurance analytics.

Total different Undergraduate Courses taught (Principle Lecturer)	12
Total Undergraduate Courses developed (Principle Lecturer)	1
Total different Undergraduate Courses taught (Shared Lecturer Duties)	3
Total different Post Graduate Courses taught (Principle Lecturer)	3
Total different Post Graduate Courses taught (Shared Lecturer Duties)	1
Total hours in class Lecturing	$>$ 700 hrs.
Total Laboratory Courses taught	5
Total tutorial Courses taught	3
Total Research Workshop Courses taught (academics)	8
Total Industry Workshop Courses taught	2

Research Supervision Summary

Total Postdoc supervised	2
Total PhD students supervised (completed)	3
Total PhD students (under supervision)	7
Total PhD students visiting (under supervision)	3
Masters - 1 year research projects supervised	15
Honors - 1 year research projects supervised	1

Teaching

Philosophy and Goals

- I will use stimulating and clear materials consisting of quality textbooks, reading materials and web based learning.
- A critical approach will be maintained in that students would be encouraged to question all source material and derive key results.
- I have the ability to lecture classes in both statistics and financial mathematics, insurance and risk theory.
- I have experience lecturing and developing Masters level courses with complete syllabus design.
- I have experience lecturing large as well as small specialized statistical courses.
- I am keen to develop courses and syllabus for more advanced graduate level courses in statistics, risk and insurance.
- I have run laboratories, tutorials and taught classes in several different universities and continents.
- I am keen to continue to supervise and co-supervise Honors, Masters and Ph.D. students in Statistics, Risk and Insurance.

Teaching Experience

University College London, London, UK

Lecturer (full tenure)- Statistics Department 2014

- Semester 2: masters statistics - Forecasting and Time Series Modelling.
- Semester 2: PhD course London Taught Course - Ruin Theory in Insurance.
- Semester 2: masters statistics - reading group sessions: Levy Processes for financial mathematics.

University College London, London, UK

Lecturer (full tenure)- Statistics Department 2013

- Semester 2: masters statistics - Forecasting and Time Series Modelling.
- Semester 2: PhD course London Taught Course - Ruin Theory in Insurance.

University of New South Wales, Sydney, Australia

Lecturer (full tenure)- Statistics Department 2012

- Semester 1: masters statistics - Data Mining with Business Applications.
- Semester 1: second year - Linear Models - Maths 2831/293.

University of New South Wales, Sydney, Australia

Lecturer (full tenure)- Statistics Department 2011

- Semester 2: second year - Numerics and Statistics - MATH2089.
- Semester 2: second year - Linear Models - Maths 2831/293.
- Semester 1: first year - Statistics for Life Sciences - MATH1041.

University of New South Wales, Sydney, Australia

Lecturer (full tenure)- Statistics Department 2010

- Semester 2: second year - Linear Models - Maths 2831/293.
- Semester 2: second year - Numerics and Statistics - MATH2089.
- Semester 1: masters statistics - Data Mining with Business Applications.

University of New South Wales, Sydney, Australia

Lecturer (full tenure) - Statistics Department 2009

- Second year Statistics: Linear Models - Maths 2831/293.
- Second year Statistics: Statistics for Civil Engineers.

University of New South Wales, Sydney, Australia

Instructor 2007

- Computer laboratories: Linear Models - Maths 2831/293.

The University of Melbourne, Melbourne, Australia

Ran and managed Electrical Engineering Laboratories 2001-2003

- Stochastic Signals and Systems, 3rd year
- Engineering Communication Systems, 3rd year
- Engineering Electronic Devices and Circuits, 1st year
- Engineering Electromagnetism, 3rd year

Academic and General, Melbourne, Australia

Teacher (mathematic, physics, chemistry, english). 1998 to 2003