

Andrew DAVISON

CONTACT INFORMATION

ADDRESS: 195 Claremont Avenue, Apt 33, New York, NY 10027
MOBILE: +1 646 318 9402
EMAIL: ad3395@columbia.edu
WEBSITE: www.adavison.co.uk

EDUCATION

- 2016 – **Columbia University, Department of Statistics**
2nd year PhD student in Statistics
- 2012 – 2016 **King's College, University of Cambridge**
2015 – 2016 (MMath) PART III OF THE MATHEMATICAL TRIPOS
Grade: Distinction (86%)
Part III Essay: New advances in causal inference (85%)
- 2012 – 2015 (BA Hons) PARTS IA, IB AND II OF THE MATHEMATICAL TRIPOS
Final grade: 1st (81%), Rank: 25th out of 214
Awarded Gordon Dixon prize (£600) for final year performance

RESEARCH PROJECTS

- Part III Essay* NEW ADVANCES IN CAUSAL INFERENCE
2015-2016 *Supervisors:* Prof. John Aston, Dr. Rajen Shah (Statistical Laboratory, University of Cambridge)
Masters dissertation on causal inference, focusing on methodological and theoretical extensions of "Causal inference by invariant prediction" (Peters et al, 2016, Journal of the Royal Statistical Society Series B) to more general models and " $p > n$ " scenarios, with part of dissertation accepted as part of the discussion section.
- Summer project* CHANGE POINT ANALYSIS IN FMRI DATA
JUN-AUG 2015 *Supervisor:* Prof. John Aston (Statistical Laboratory, University of Cambridge)
(6 WEEKS)
Proposed and completed project to analyse time series fMRI data for changes in brain activity under non-parametric noise assumptions. Extended methodology of supervisor to work for an unknown number of change points (at most two previously), allowing for analysis of a large amount of data (approx. 10^6 voxels, 200 time samples) in a short period of time despite intensive calculations e.g. bootstrapping, dimension reduction.

TEACHING EXPERIENCE

- Teaching assistant* COLUMBIA UNIVERSITY
FALL 2016– Classes: GU4204 Statistical Inference (Fall 2017), GU5231 Survival Analysis (Spring 2017), GU4203 Probability (Fall 2016).
Responsibilities: grading; holding office hours and recitation sessions; creating exams, homework solutions.
- Tutoring/teaching* CRAMLINGTON LEARNING VILLAGE
JUN-OCT 2014 Tutoring Year 12 students of ranged abilities (E/F grade of GCSE Maths to AS
SPRING 2012 Further Maths students); classroom assistant for Year 11 class.

PROGRAMMING SKILLS

- Experienced in MATLAB and R (coursework, class/research projects, 4 years of consistent use)
- Currently learning Python and TensorFlow

LEADERSHIP AND VOLUNTEERING

- 2015–2016 CAPTAIN OF KING'S COLLEGE BADMINTON CLUB
Responsible for £1200 budget, obtaining funding, booking courts.
- 2014–2015 CAPTAIN OF KING'S COLLEGE POOL II TEAM
Organizing matches, communicating to team, successively arguing to league over disputes (e.g other team not showing up).
- 2012–2016 VOLUNTEERING FOR ACCESS ACTIVITIES AT KING'S COLLEGE
Giving guided tours of the college, answering potential students questions at open days.