LAURENCE McGLASHAN

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EDUCATION

2007 - Present **Studying for a PhD in Chemical Engineering**.
CoMo Group, University of Cambridge.
Computational Modelling of Multiphase, Turbulent, Reactive Flows.

2003 - 2007 **BA** & **MEng (Hons) Chemical Engineering**.
Robinson College, University of Cambridge.
Grade: **Upper Second Class**. Rank: **9/36**. Score: **69%**.

Reading School, Reading.
4 A-Levels: Further Maths(**A**), Maths(**A**), Physics(**A**), Chemistry(**A**).
13 GCSEs: All at Grade **A*/A**.

WORK EXPERIENCE

2007 – 2010 **Undergraduate Teaching**
University of Cambridge, UK.

- I supervise chemical engineering undergraduate students in: Process Dynamics and Control, Corrosion and Materials, Safety, Health and the Environment and Engineering Maths.
- In 2009 I supervised a student working on a 6 month project towards a Masters degree.
- I have also demonstrated computational fluid dynamics and computing courses.

2007 – 2010 **Weblab Coordinator**
University of Cambridge, UK.

- I ran two of the undergraduate coursework exercises in Reactors and Process Dynamics and Control.
- Responsibilities involved administration, maintenance of the lab equipment, supervision of the students and the marking of their final reports.

2006 **Process Engineering Internship**
Aker Kvaerner. *Portsmouth, UK.*

- Was part of the process engineering team designing a new PTA plant in China.
- Most valuable part of the experience was observing how senior engineers use their knowledge and experience to make quick judgments and prioritise tasks.
- Had responsibility for altering and organising the 80 plant schematics and also performed checks on equipment data sheets and pipelines.

SKILLS

IT Extensive experience of Unix/Windows.
Programming Languages: C++, FORTRAN.
Software: Office, LaTeX, Matlab.
CFD packages: OpenFOAM and STAR-CD.

Languages English - Native.
Mandarin Chinese - Certificate of Proficiency (Basic).

ACTIVITIES & ACHIEVEMENTS

Leadership **Captain of College Football Team (2008-2010)**

- For two years I managed and played for the college football team. The team had not won a game the previous season. I registered the team with the Football Association, obtained some funding and organised training sessions once a week.
- The team's performance improved and the number of players taking part over the two years increased.

Organisation **Treasurer of College Graduate Students' Association (2009)**
Treasurer of College Undergraduate Students' Association (2005)

- Main roles were to distribute the money given to us by college to the various societies and external companies that we dealt with. I also had to propose a budget for the associations at the end of the financial year.
- Produced a finance booklet for new students, highlighting the funding and bursaries that are available to them.
- Produced handover notes to help the next treasurer in order to enable a smoother transition.

Negotiation **Student Representative on Dept. Syndicate (2009)**

- Volunteered to represent the graduate students on department committees.
- Raised awareness about the committees amongst the students. Managed to get persuade the committee to equalise the workload of some of the 4th year courses.

Communication **Best Presentation Prize at Graduate Conference (2010)**

- Won first prize (out of 33 PhD students) for a 40 minute talk I gave about my research to the rest of the department.
- I demonstrated the ability to explain my research to an audience that was not familiar with the research area.

AWARDS

1st Prize: Graduate Conference Presentation. Dept. of Chemical Engineering, 2010.
2nd Prize: 1st Year Graduate Poster and Presentation. Dept. of Chemical Engineering, 2008.
A-level: Chemistry Prize.

PUBLICATIONS

Akroyd, J., Smith, A.J., **McGlashan, L. R.** and Kraft, M. (2010). Comparison of the stochastic fields method and DQMoM-IEM as turbulent reaction closures, *Chemical Engineering Science* 65(20): 5429–5441.
Akroyd, J., Smith, A.J., **McGlashan, L. R.** and Kraft, M. (2010). Numerical investigation of DQMoM-IEM as a turbulent reaction closure, *Chemical Engineering Science* 65(6): 1915–1924.

REFEREES

Dr W. P. Nolan (Tutor)
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