

Lester O. Hedges

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Education

Ph.D. Theoretical Physics University of Nottingham Supervisor: Juan. P. Garrahan Title: "Aspects of dynamic heterogeneity in models of supercooled liquids"	2004–2007
M.Sci. Physics University of Nottingham First class honours	2000–2004

Career summary

Postdoctoral research, Dept. of Chemistry, University of California at Berkeley: Research into the dynamics of supercooled liquids and glasses. Member of David Chandler's research group.

Awards

Salmon Prize, Undergraduate Research Award, University of Nottingham (2004).

Teaching Experience

1st Year Computing Laboratory, University of Nottingham, (2004–2007).
Teaching assistant in a MATLAB programming class for first year undergraduate students. Roles also included coursework assessment and exam invigilation.
Lab in a Lorry, (Dec 2005).
Volunteer for the Institute of Physics and Schlumberger Foundation "Lab in a Lorry" initiative. Demonstrating physics experiments to local secondary school students aged 11–14.

Computing Skills

Languages: C, C++, MATLAB, BASH, Python, HTML, \LaTeX .
Operating Systems: Linux, Windows, OS X.
Applications: OpenGL, LAMMPS, PNGwriter, MS Office, Powerpoint.

Publications

5. “Dynamic Order-Disorder in Atomistic Models of Structural Glass-Formers”, L. O. Hedges et al., *Science*, **323** 5919 (2009).
4. “Dynamic facilitation explains democratic motion of metabasin transitions”, L. O. Hedges and J. P. Garrahan, *J. Phys.* **A41** 3244006.
3. “De-coupling of Exchange and Persistence Times in Atomistic Models of Glass Formers”, L. O. Hedges et al., *J. Chem. Phys.* **127** 211101 (2007).
2. “Dynamic propensity in a kinetically constrained lattice gas”, L. O. Hedges and J. P. Garrahan, *J. Phys.: Condens. Matter.* **19** (2007).
1. “Fast Simulation of Facilitated Spin Models”, D. J. Ashton, L. O. Hedges and J. P. Garrahan, *J. Stat. Mech.* (2005) P12010.

Conferences and Presentations

- (2009) – “How does a supercooled liquid flow?” Chandler group seminar, Berkeley.
- (2008) – “The Nuts and Bolts of Glassy Physics”, Chandler group seminar, Berkeley.
- (2008) – “A Glass Transition in Space-time for Atomistic Models of Structural Glass Formers”, US-Japan Bilateral workshop, Berkeley.
- (2007) – “Demonstration of a glass transition in space-time for a continuous force system”, Chandler group seminar, Berkeley.
- (2007) – “Two steps forwards and one step back: Fast Monte Carlo methods for dynamic simulations”, presentation, Nottingham.
- (2007) – “Linking structure and dynamics in a glassy system”, Chandler group seminar, Berkeley.
- (2007) – “Dynamic propensity in a kinetically constrained lattice gas”, poster at Mini Stat-Mech meeting, Berkeley.
- (2006) – “Structure and dynamics in a model glassformer”, presentation, Nottingham.
- (2005) – “Fast simulation of facilitated spin models”, poster at summerschool Luxembourg: Ageing and the glass transition.

Non-academic Employment

Bath Life Magazine. 2002–2004
Assisted in the large scale distribution of a new and rapidly expanding lifestyle magazine for Bath residents and businesses.

Homebase, Bath. 2000–2004
Shopfloor assistant in one of the busiest DIY stores in the UK. Duties included: mixing paint and cutting timber to customer order; assisting with the design, construction and upkeep of shop layouts; replenishment and control of stock.

Other Interests

Football: Captain of Nottingham Physics Postgraduate team (2006–2007), member of Odd Down reserve team (2003), member of University of Nottingham 4th team (2001–2002).

Badminton: University of Nottingham 4th team captain (2003), Avon training squad (1995–2000).

Tennis: Avon training squad (1992–1994).