Aaron M. Smith

CONTACT INFORMATION

Tiundagatan 48-B,
Stabby,
75230 Uppsala

Telephone: +46-7204-55698
Email: aaron@aaronmsmith.co.uk

EDUCATION

Azurlingua, 47 Rue Herold, 06000 Nice, France (April-May 2012)

- Intensive six-week course in French language and culture at CEFR level B2.

Centre for Mathematical Biology, 24-29 St Giles', Oxford, OX1 3LB (September 2007 - April 2012)

PhD in Mathematical Biology (Thesis title: "Vertex-model approaches to epithelial tissues in developmental systems.")

- Awarded place on Life Sciences Interface Doctoral Training Centre and granted four-year Engineering and Physical Sciences Research Council scholarship.
- Led collaboration to build mathematical model of cell migration in the mouse embryo, showing that multi-cellular 'rosettes' are crucial facilitators of ordered migration. Obtained funding to present results of this work at the 2010 Annual Conference of the Society for Mathematical Biology in Rio de Janeiro, Brazil.
- Participated in peer-review process as reviewer for PLoS Computational Biology journal.
- Organized two student conferences for over 120 delegates as part of committee for Society for Industrial and Applied Mathematics. Personally invited key-note speakers and designed conference website and registration system.

University of Bath, Claverton Down, Bath, BA2 7AY (September 2003 - June 2007)

M.Phys. in Mathematics & Physics with Placement (First Class Honours)

- Thesis title: "Effects of content, orientation, and burial depth on reflection of bistatic sonar from cylindrical targets."

De La Salle College, Wellington Road, St. Saviour, Jersey, JE2 7TH (September 1999 - June 2003)

- A-Levels : Mathematics (A), Physics (A), History (A), French (A), Further Mathematics (A - AS-level).
- GCSEs : 10 at grades A and above, including English and English literature.

PUBLICATIONS

A. M. Smith, R. E. Baker, D. Kay & P. K. Maini. Incorporating chemical signalling factors into vertex-based models of epithelial tissues. *J. Math. Bio.*, 2011.

G. Trichas, A. M. Smith, N. White, V. Wilkins, T. Watanabe, A. Moore, B. Joyce, J. Sugnaseelan, T. A. Rodriguez, D. Kay, R. E. Baker, P. K. Maini & S. Srinivas. Multi-cellular rosettes in the mouse visceral endoderm facilitate the ordered migration of AVE cells. *PLoS Biology*, 2012.

Employment

MyDocumate, www.mydocumate.com (2012-)

- Proofreading and editing statements and CVs of non-native English speakers, checking fluency of prose and making adjustments to the argument and logical flow.

University of Oxford, Wellington Square, Oxford, OX1 2JD (2008-2012)

- Assisting in classes and marking coursework on 'Mathematical Biology & Ecology' third-year undergraduate module.
- Demonstrating on 'Scientific Computing in Matlab' course for first-year PhD students.

MBDA UK, Golf Course Lane, Filton, Bristol BS34 7QW (2005-2006)

- Creating innovative probabilistic algorithm for navigation of long range missiles, and validating computer simulations against real data, significantly increasing accruacy.

Voluntary work

Giving What We Can, Oxford Uehiro Centre for Practical Ethics, Littlegate House, St. Ebbe's Street, Oxford, OX1 1PT (2011-present)

- Writing a 3-year business plan for a rapidly growing charity, detailing its expansion to over 1000 members pledging a total of $100,000,000 to cost-effective charities.
- Planning and creating a database of all members and volunteers using customer relationship management software, allowing other volunteers to have easy access to necessary information.

Oxford Food Bank, Ray Mills House, Lamarsh Road, Oxford, OX2 0HY (2011-2012)

- Collecting, sorting and delivering fresh fruit, vegetables and bread from supermarkets to local charities, enabling them to provide nutritious meals for people in desperate need.

Additional Data

Co-captain of Hertford College MCR football team 2009-2010. Led team to promotion from third to second division.

Languages

English (native), French (CEFR level B2), Spanish (B1), Swedish (A2).

Computing Skills

Operating Systems: Ubuntu Linux, Microsoft Windows, Mac OS.
Programming: Matlab, `C++`, Perl.
Version control: Subversion, Git.
Databases: CiviCRM, Drupal.
Task management: Asana.
Website Design: HTML, CSS, Ruby on Rails.
Document preparation: LaTeX, Microsoft Office, OpenOffice.