

Tom Chou

Department of Biomathematics and
Department of Mathematics
UCLA
<http://faculty.biomath.ucla.edu/tchou/>
tomchou@ucla.edu

**Education**

1995 Ph.D. in Physics, Harvard University
1992 M.A. in Physics, Harvard University
1989 S.B. in Physical Chemistry, Massachusetts Institute of Technology

Positions held

2009-present Professor, Depts. of Biomathematics and Mathematics, UCLA
2005-2009 Associate Professor, Depts. of Biomathematics and Mathematics, UCLA
2000-2005 Assistant Professor, Depts. of Biomathematics and Mathematics, UCLA
1998-2000 Lecturer, Dept. of Mathematics, Stanford University
1996-1998 Research Fellow, DAMTP, University of Cambridge
1995-1996 Postdoc, Dept. of Physics, Cornell University

Awards & Honours

Fellow of the American Physical Society (2013), National Science Foundation CAREER Award (2004), National Institutes of Health Career Development Award (2004)

Current editorial boards

Multiscale Modeling and Simulation, Mathematical Medicine and Biology

Selected committee work

2018 Organizer, SIAM Life Science Conference, Minneapolis, MN
2016-present Director, Systems and Integrative Biology Training Grant, UCLA
2013-2014 UCLA School of Medicine Biomedical Informatics Task Force
2012-2015 Scientific Advisory Committee, Mathematical Biosciences Institute, Columbus, Ohio
2010-2011 Member, Defense Science Study Group, Institute of Defense Analyses, Washington DC
2008-2010 Committee on Equity and Diversity, UCLA; Chair (2010)
2006-2008 Biomathematics Faculty Search Committee, UCLA
2005-2008 UCLA Student Conduct Committee

Five selected (recent) publications

Lae Un Kim, Maria D'Orsogna, and Tom Chou, Perturbing the hypothalamic-pituitary-adrenal stress response system: mathematical modeling to improve diagnosis of post-traumatic and related stress disorders, *Computational Psychiatry*, **2**, 28-49, (2017).

S. Goyal, S. Kim, I. Chen, and Tom Chou, Mechanisms of blood homeostasis: lineage tracking and a neutral model of cell populations in rhesus macaque, *BMC Biology*, **13**, 85, (2015).

Joshua C. Chang, Van M. Savage, and Tom Chou, A path integral approach to Bayesian inference for inverse problems using the semiclassical approach, *Journal of Statistical Physics*, **157**, 582-602, (2014).

M. R. D'Orsogna, G. Lakatos, and Tom Chou, Stochastic nucleation of incommensurate clusters, *Journal of Chemical Physics*, **136**, 084110, (2012).

Tom Chou, K. Mallick, and R. K. P. Zia, Non-equilibrium statistical mechanics: Fundamental issues, a paradigmatic model, and applications to biological transport, *Reports on Progress in Physics*, **74**, 116601, (2011).