Jérôme Wong Ng

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Education

2004-2007 Université Pierre et Marie Curie, France. Ph.D. student in Biophysics. Supervisor : Didier Chatenay

2002-2004 Université Pierre et Marie Curie and Ecole Normale Supérieure de Paris, France. Master degree in"Liquid and Soft matter Physics"

1999-2003 Université Pierre et Marie Curie and Ecole Normale Supérieure de Paris, France. Bachelor degree in"Fundamental Physics "

Work experience

2014- Vergassola Lab, UCSD. Project scientist with Massimo Vergassola
Functional role of adaptation in bacterial chemotaxis

2009-2013 Physics of Biological Systems, Pasteur Institute. Post-doctoral researcher with Massimo Vergassola
Noninvasive inference of the molecular chemotactic response using bacterial trajectories

2004-2008 Laboratoire de Physique Statistique, Ecole Normale Supérieure de Paris. PhD Thesis with Didier Chatenay
Plasmid Copy number Variation in Monoclonal Population of Bacteria, a 'Phenotypic' Variability

2004 Groupe de Physique des Solides, Université Pierre et Marie Curie. Master thesis supervised by Olivier Ronsin.
Effects of Surface Texture on Self-Healing Fracture Dynamics using Gel/Glass Macroscopic Contact

2003 Laboratoire de Neurobiologie Cellulaire et Moléculaire, Ecole Normale Supérieure de Paris. 6 months internship supervised by Stéphane Dieudonné
Fast-Scanning Two Photon Microscopy and Applications to Neurobiology

2002 Laboratoire de Physique Statistique, Ecole Normale Supérieure de Paris. One month internship supervised by Jean-François Allemand and Alexandre Dawid
Characterization of TypeI Restriction Enzyme EcoAI

2000 Neterprise, Mauritius. One month internship supervised by Steeve Tsang
Informatic Network Establishement and Maintenance in Local Entreprises

Computer skills

OS	Windows, Linux, Mac
Software	Microsoft Office (Word, Excel, Powerpoint), LaTeX, KaleidaGraph
Programming	Matlab, Igor, Labview, Python, C, Java

Languages

French	Mother tongue
English	Fluently read, spoken and written.

Teaching and Mentoring

2004-2007	Université René Descartes. Teaching assistant. Physics for 1st year Medical Studies .
2010	supervised Bachelor's students S. Tintea - Havard
2011	supervised Bachelor's students E. Lemaout - Université Bretagne Occidentale
2011-2012	supervised Master's student K. Becker, thesis title "Adaptation of chemotaxis in Escherichia coli - Experiment and Modeling" - TU Braunschweig
2015-2016	Project design and group mentoring, Modern physics Lab (Phys173) wth Pr J. Palacci, UCSD
2015-2016	Project design and student mentoring, Quantitative Biology Lab (Phys270B) wth Dr P. Tsai, UCSD
2016	supervised Bachelor's student B. McCoy, UCSD

Invited seminars

2009	ESPCI, Paris. IPR, Rennes
2011	LPS, Orsay.
2016	LJP, Paris. LadHyx, Palaiseau.

Publications

2008	Optical monitoring of neuronal activity at high frame rate with a digital Random-Access MultiPhoton (RAMP) microscope ; Otsu Yo, Bormuth V, **Wong J**, Mathieu B, Dugué GP , Feltz A , Dieudonné S ; Journal of Neuroscience Methods, 2008, 173, 259-270.
2010	Plasmid copy number noise in monoclonal populations of bacteria. ; **Wong Ng J**, Chatenay D, Robert J, Poirier MG. ; Phys Rev E Stat Nonlin Soft Matter Phys., 2010, 81, 011909.
2010	Inference of plasmid-copy-number mean and noise from single-cell gene expression data. ; Ghozzi S, **Wong Ng J**, Chatenay D and Robert J ; Phys Rev E Stat Nonlin Soft Matter Phys, 2010, 82, 051916.
2012	Non-invasive inference of the molecular chemotaxis response from bacterial trajectories. Masson JB*, Voisinne G*, **Wong Ng J***, Celani A and Vergassola M, Proc. Nat. Academy Sciences, 2012, 109 ,1802-7. * equal contributors)
2015	Gene inactivation of a chemotaxis operon in the pathogen Leptospira interrogans. Lambert A, **Wong Ng J**, and Picardeau M,FEMS Microbiol. Lett. 2015 Jan ;362(3) :1-8.
2016	The Role of Adaptation in Bacterial Speed Races. **Wong Ng J**, Melbinger A, Celani A and Vergassola M, Plos. Comp. Biol. 2016, 12(6) : e1004974. doi : 10.1371/journal.pcbi.1004974