

Jonathan Friedlander, PhD

36 Sparks Street #2 - Cambridge, MA 02138 - USA - + [REDACTED] - [REDACTED]

Experience in Biotech and Energy Industries / PhD in Cellular and Developmental Biology / BS in Agricultural Engineering

Work Experience

- 2012 – 2015** **Cambridge, MA, USA**
Scientist and Technical Business Development Manager, Total New Energies
- Total New Energies' representative at Novogy, Inc., a start-up specializing in research and development of high productivity biocatalysts for biofuels and specialty chemicals
 - Key scientific advisor to fundraising efforts, the responsibilities for which include writing grant applications and meeting investors
 - Co-created Novogy's business model and market strategy using both public and proprietary data
 - Launched the company's state-of-the-art molecular biology lab
 - Created novel genetically modified strains of biocatalyst, which exhibited increased productivity using tools from metabolic engineering and molecular biology
- 2013 – 2015** **London, UK**
Analyst, Naxos UK Ltd.
- Conducted pre-purchase analyses of internal and public documents of biotechnology firms as a part of Naxos's due diligence processes
 - CEO of Naxos followed my recommendations based on these analyses
- 2011** **Cambridge, UK**
Undergraduate supervisor, Department of Physiology, Development and Neuroscience, University of Cambridge
- Supervised and mentored an undergraduate student to design and complete successfully a year-long research project
- 2007** **Paris, France**
Research Assistant, ENS Ulm, Paris
- Conducted physical analysis and modeling of tissue morphogenesis in the fruit fly, *Drosophila melanogaster*, in a collaboration with physicists and computer scientists
- 2006** **New York, NY, USA**
Research Assistant, Columbia University
- Successfully localized and described stem cells in the kidneys of rats
- 2005** **Pondicherry, India**
Agricultural Development Manager, NGO Volontariat
- Started operations of an Indigo farm and pigment extraction facility to aid in the economic development of the Pondicherry region, as a part of the broader Volontariat program throughout India.
- 2005** **Paris, France**
Intern, Unit 467 of National Institute for Health and Medical Research (INSERM) in the faculty of Necker
- Supported analysis and localization of the protein that causes cystic fibrosis (CFTR)
- 2004** **Pyrenées Atlantiques, France**
Agri-Business Intern, Ferme Sainte-Marine
- Generated an economic and technical analysis of a bovine meat and milk production facility

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Education

Harvard Business School

Boston, MA, USA

Candidate for Master in Business Administration, May 2017.

University of Cambridge, Darwin College

Cambridge, UK

PhD, Cellular and Developmental Biology, Gurdon Institute, Department of Physiology,
Development and Neuroscience, 2011

Thesis Title: Functional Analysis of the *Git* Gene Involved in Cell Shape and Adhesion during the Development and Morphological Evolution of *Drosophila Melanogaster*

Synopsis: The shape of a cell is regulated in part by its inner skeleton and by its adhesion to the environment. My PhD dissertation examined a family of proteins involved in coordinating these two components during cell migration and embryonic development. These processes are involved in metastatic cancers and their study will aid the development of novel treatments.

Ecole Normale Supérieure (ENS)

Paris, France

MSc, Interdisciplinary Approach of Living Systems, 2007

Thesis Title: Modeling of Tissue Morphogenesis in *Drosophila Melanogaster*

AgroParisTech, Paris Institute of Technology for Life, Food, and Environmental Sciences, Paris, France

BS, Agricultural Engineering, 2007

Focus in Molecular and plant biology, Soil and Climate Sciences, Agriculture, Economy and Management

Fellowships and Awards

The Gates Cambridge Trust, PhD fellowship

Gates Cambridge Scholarships are highly competitive full-cost scholarships. They are awarded to outstanding applicants from countries outside the UK to pursue a full-time postgraduate degree in any subject available at the University of Cambridge.

Biotechnology and Biological Sciences Research Council (BBSRC), PhD fellowship

The BBSRC supports exceptional doctoral researchers to ensure the flow of highly qualified people into careers in and outside of academia.

Biotechnology Young Entrepreneurs Scheme (YES) Competition, BBSRC, 2011

- Runner up
- Assembled and lead a team of five PhD students in biological sciences to a national biotechnology competition
- Designed and presented the commercialization strategy for a biotechnology discovery

Skills

Languages French, native; English, fluent; Spanish, working knowledge

Software Genome analysis and molecular biology softwares