

- EDUCATION**
- 2011 : **PhD in Physics**, Membranes in cells : transport and identity, *ESPCI (Paris) - Université Paris VI*.
  - 2007 **Master of Science**, Modeling, Statistics and Algorithms in out-of-equilibrium systems, *summa cum laude*. *Université Paris XI & École Normale Supérieure*.
  - 2005 **Bachelor of Science**, Physics, *École Normale Supérieure*.
  - 2004 Admitted in the *École Normale Supérieure*, Major : Biology, Chemistry.
  - 2002 **Baccalauréat scientifique**, Distinctions : A (*très bien*), European.
- SCIENCE SKILLS**
- Physics* : Biophysics, statistical physics, thermodynamics, dynamical systems.
  - Biology* : Cell biology, image analysis, data analysis.
  - Computer science* : Algorithms, C/C++, Python, Matlab programming.
  - Teaching* : Physics and Matlab for biologists, mathematical modeling, simulations.
- EXPERIENCE**
- Since september 2017 : **Postdoctoral fellow**
    - Modeling of cellular spatial organization.  
Supervisor : Nicolas Minc, *Institut Jacques Monod*.  
Laureate, CNRS Momentum 2017 (starting Feb. 2018)
  - Feb. 2012-June 2017 : **Postdoctoral fellow** (BIOMS fellowship)
    - Cytoskeletal architecture in cell plasticity.  
Supervisor : François Nédélec, *EMBL Heidelberg*.
    - Co-organized "Modeling Cellular Processes in Space and Time"  
Serge Dmitrieff, Hervé Turlier, François Nédélec, october 2014
  - Oct. 2011-Jan. 2012 : **Bridging postdoctoral fellow**
    - Models of transport and compartment generation in Eucaryotic cells.  
Supervisor : Pierre Sens, *ESPCI, Paris*.
  - Sept. 2008-Sept. 2011 : **PhD Student**
    - Models of transport and compartment generation in Eucaryotic cells.  
Advisor : Pierre Sens. *Laboratory of Theoretical Physical Chemistry, ESPCI*.
    - Teacher assistant in Physics for freshmen biologists, *Université Paris VI, Paris*.
  - Sept. 2007- Feb. 2008 **Scientific Deputy, French Consulate in Shanghai**
    - Creation of a database of Physics laboratories in the Shanghai area, in order to promote scientific cooperation.
  - Sept. 2005 - July 2007 **Master of Science**
    - Modeling of a protein detector as a 2D-random walk process.  
Advisor : Michel Moreau, *Laboratory of Condensed Matter, Université Paris VI*.
    - Characterization of viral capsids sizes by AFM.  
Advisor : Bill Gelbart, *Department of Physical Chemistry, UCLA, Los Angeles*.
  - 2005 **Bachelor of Science**
    - Computer simulation of a restriction enzyme as a random walker.  
Advisor : Pierre Desbiolles, *Laboratoire Kastler Brossel, ENS, Paris*.
    - Analyzing the influence of localized mutations in the shape of a protein.  
Advisor : Christiane Alba-Simionesco, *LCP, Université Paris XI*.

- Funding and fellowships**
- 2017 : CNRS Momentum fellowship
  - 2015 : BIOMS fellowship extension
  - 2012 : Awarded BIOMS post-doctoral fellowship
  - 2012 : Awarded EIPOD post-doctoral fellowship (declined)
- Presentations in internationally established conferences**
- *Amplification of actin polymerization forces during yeast endocytosis* (flash talk)  
Actin in Action, from molecules to functions, Heidelberg (Germany), September 7-10, 2016.
  - *Forces and shapes in yeast endocytosis*  
Physics of the living matter symposium, Cambridge (UK), September 24-25, 2015.
  - *Forces in yeast endocytosis*  
Seminar on the Theory of complex systems, Heidelberg, January 15 2015.
  - *Role of turgor pressure, actin organization and membrane curvature effectors in Yeast endocytosis*  
Current advances in membrane trafficking : Implications for polarity and diseases, Puerto Natales (Chile) 9-14 September 2014.
  - *Transient domain formation in membrane-bound organelles undergoing maturation*  
SoftComp annual meeting, Heraklion, Greece, May 15-18, 2011
  - *Kinetic limitation of transport in the Golgi apparatus*  
Cell shape changes 2009 October 19-23 Paris, France,
  - Over 25 posters presentations in national and international conferences.
- Workshop organization**
- Modeling Cellular Processes in Space and Time  
Porquerolles, France, October 5-11 2014.  
<http://www.embl.de/external/events/2014/MOD14>
- Teaching activity**
- Intracellular mechanics (seminar)  
EMBL predoc course, Heidelberg, October 2014
  - Implementing Stochastic Simulation of Chemical Kinetics in Matlab (practical)  
EMBL predoc course, Heidelberg, October 2014
  - Stochastic Simulation in Matlab (practical)  
EMBL bioIT training week, March 2014
  - Modeling Cellular Processes in Space and Time (cytoskeleton modeling)  
Porquerolles, France, October 5-11 2014.
  - Modeling in Biology (seminar)  
EMBL predoc course, Heidelberg, October 2013
  - Microscopy, modeling and physical methods (cytoskeleton modeling practical)  
EMBO course, EMBL Heidelberg, October 2012
  - Physics for biologists LP104 (teaching assistant for freshmen biologists).  
Université Pierre et Marie Curie, Paris. 2009-2011
- Schools and workshops**
- Modeling Cellular Processes in Space and Time (cytoskeleton modeling)  
Porquerolles, France, October 5-11 2014.
  - New Trends in the Physics and Mechanics of Biological Systems  
Les Houches, France, July 6-31 2009.
  - Cell shape changes October 19-23 Paris 2009, France.
- Supervising and mentoring activities**
- 2012-2016 : Participation in the mentoring of PhD students in the Nédélec group.
  - 2015 : Mentoring of Adolfo Alsina (master student) ; manuscript in preparation.
  - 2016 : Supervision of Isma Bennati (visting PhD student)