

Education

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- 2009–2010 **École Normale Supérieure – Université Paris VII Diderot** Paris, France
Candidate for M.Sc in Physical engineering of energies
* **Relevant Courses:** networks, electricity production and electrotechnics, law in the energy sector, energy related physics (mechanics, materials...). Speciality in wind and solar.
- 2007–2009 **École Normale Supérieure – Université Paris Sud XI** Paris, France
M.S. in Physics of condensed matter
* **Relevant Courses:** Structure of condensed matter, statistical physics and phase transitions, field theory, electrons and phonons, strongly correlated fermions. Courses in cosmology, general relativity, Earth sciences/climate dynamics and economics.
* **Experimental Courses:** Nanotechnologies. Familiar with lithography, AFM, STM, STEM. Laue diffraction.
- Sept. 2007 **French Consulate** Cairo, Egypt
Intensive training course in Arabic.
- 2006–2007 **École Normale Supérieure** Paris, France
B.S. in Physics
* **Relevant Courses:** Quantum mechanics, relativity, statistical physics and thermodynamics, maths, fluid dynamics. Courses in Earth sciences.
* **Honors** Four-year State's funded scholarship as student civil servant.
- 2004–2006 **Lycée Louis-le-Grand** Paris, France
Preparatory class for French top scientific schools.
* **Relevant Courses:** Intensive courses in maths, physics and chemistry. Basic algorithmic science
* **Experimental Courses:** Usual optical and electronical devices, inorganic and organic chemistry.
* **Honors** Accepted 4th/~5,000 at both **École Polytechnique** and **École Normale Supérieure**.

Experience

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- Mar.–Sept. 2010 **Makani** Alameda, CA
* Design and control of rigid wings for power generation
- Jan.–Feb. 2009 **ESPCI ParisTech** Paris, France
Supervised by Dr. Benoit Dubertret
* Synthesized CdSe nano-platelets, characterized their excitonic and photobleaching lifetime and improved the latter.
- 2008–2009 **Lycée Saint-Louis and Lycée Louis-le-Grand** Paris, France
* Teaching Assistant in physics.
- Mai–Jun. 2008 **Editions H&K** Paris, France
* Wrote solutions for a preparatory class competitive exam preparation book in physics. Approximately 1,000 units sold each year.
* The corrections (25 pages) were written with L^AT_EX and fulfilled commercial quality standards.
- Mar.–Aug. 2008 **Department of Earth and Planetary Sciences – HARVARD University** Cambridge, MA
Supervised by Professor Eli Tziperman
* Modified and ran the atmospheric General Circulation Model *CAM* on the Unix lab cluster.
* Analyzed its output with Matlab to explain and understand the phenomenon of *Equable Climate* over continents.
* Observed that the *Cloud Convective Feedback* proposed by E.Tziperman over oceans was not active over continents.
* Proposed a mechanism of longitudinal heat transport from the oceans to the continents.
- Aug. 2007 **LITEN – CEA (Commissariat à l'Énergie Atomique)** Grenoble, France
Supervised by Dr. Philippe Thony
* Made a theoretical study of confinement effects in Si nanowires.
* Characterized a nano-wire-based solar cell.
* Designed a mask for subsequent treatments of the cell's front.

Publications

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- * D. S. Abbot, M. Huber, G. Bousquet, and C. C. Walker. High-CO₂ cloud radiative forcing feedback over both land and ocean in a global climate model. *GEOPHYSICAL RESEARCH LETTERS*, 36, MAR 4 2009.
- * H&K team incl. G. Bousquet. *Physique et chimie PC: Corrigés des concours 2008*. H&K, 2008.
- * S. Ithurria, G. Bousquet, and B. Dubertret. Groth mechanism of atomically controlled CdSe colloidal quantum wells. Submitted.

Languages and Computer skills

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- * **French** mother tongue **English** fluent **German** very good **Arabic** intermediate
* **Maple, Matlab, Linux, Unix**