

Daniel SUCHET

PhD, Engineer from École polytechnique

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💡 Research experience

Post doc ANR Industrial chair

with E. Johnson

- 📖 Tailored Waveform Excitation for plasma enhanced deposition
- 📄 *In situ* characterization (ellipsometry)
- 🔧 Thin film production by PECVD

LPICM (École polytechnique)

📅 2017-present

CNRS-JSPS fellowship

with Y. Okada and J.-F. Guillemoles

- 📖 Physics of energy conversion, new concepts for PV
- 📄 Optical and electrical modelization and characterization
- 🔧 Molecular Beam Epitaxy (quantum dot, quantum well)

NextPV (University of Tokyo)

📅 2016-2017

PhD thesis in Physics

with F. Chevy and C. Salomon - TEL ID : 01390499

- 📖 Quantum mechanics for light-matter interaction, thermodynamics
- 🔧 Development of an ultra cold atom experiment (optics, vacuum, electronics)

Lab. Kastler-Brossel (ENS Ulm)

📅 2012-2016

Master internship

with M. Gonin

- 📖 Neutrino beam profiling for the T2K experiment
- 📄 Numerical simulations and data analysis
- 🏆 Prix du Centre de recherche X2008 (best internship completed at École polytechnique)

LLR (École polytechnique)

📅 Jan-July 2011

Collaboration

with J. Souchay

- 📄 Database for the Large Quasar Astrometric Catalogue

SYRTE (Paris Observatory)

📅 2007-2011

🗨️ Educational experience

..... Teaching

Lecturer

with Y. Okada and N. Ahsan

- Lectures "Basic Energy Engineering" on thermodynamics
- Exercise classes on solar, wind and nuclear energy

University of Tokyo

📅 2017 - 🕒 ~ 15h

Teaching assistant (tutorat and monitorat)

with L. Guevel, M. Joffre, C. Kopper and A. Specka

- Interview for Bachelor candidates
- Tutorial classes: Quantum and statistical physics, special relativity, English
- Exercise classes: Particle physics, semestre préparatoire
- Project supervision: International Physicists' Tournament
- 🏆 2013: 3rd place. 2014: 1st place. 2015: 3rd place, Prix du PSC. 2016: 3rd of FPT.

École polytechnique

📅 2011-present - 🕒 ~200h

Teaching assistant

with D. Jurine (PCSI) and D. Chardon (PC*)

- Exercise classes and mock exams covering the undergraduate syllabus (L1-L2).
- Classes on basic thermodynamics for adult students

Lycée Saint Louis (Paris)

📅 2009-2013 - 🕒 ~180h





Scientific instructor

for 18 primary school teachers in Seine Saint Denis.

National Education (93)

📅 2008 🕒 full time


Public lectures


- Over 100 presentations to large audiences, in particular:  2011-present
 - Doctoral mission at Palais de la Découverte (Paris).
 - "Looking At Science through Fiction: an introduction to the scientific method."
 -  Supported by the French Physical Society
 -  Invited talks at "Journées Regards de Physicien" (SFP 2016) and Théâtre de la Reine Blanche (Paris)
 -  Awarded by Diagonale Paris-Saclay (Curiositas 2014), and special price for "scientific fiction" by S[cube]

Scientific curator

for the exhibition *Photonfutur* dedicated to photovoltaic resources. **ESPCI (Paris)**
 2016

Communication group

Website renovation, press release, lab presentations, fête de la Science **Lab. Kastler-Brossel (ENS Ulm)**
 2014–2015


 Invited talk at "Journées Nouveaux Entrants CNRS" (JEPHY 2015)

Scientific blogger - "L'actu des sciences"

Monthly science news illustrated by science fiction. **ActuSF edition**
 2012–2014


Available at www.actusf.com/spip/L-actu-des-sciences

Emergent Scientist (EmSci)

A hands-on open-access journal to train students to peer-review publication **EDP Science**
 Since 2016


Founder and Editor in chief

Young Physicists Meeting (RJP)

Physics conference for and by PhD students **French Physical Society**
 2014


Assistant treasurer (100 participants, 15 000€ budget)

International Physicists' Tournament (IPT)

Student competition on open problems involving 21 countries. **French Physical Society**
 Since 2013

- Member of the Executive Committee (since 2016)
- Vice president for the 8th edition (2016, 120 participants from 15 countries, 110 000€ budget)
- Founder of the French Physicists' Tournament (2014)
- First French representative and Team leader of the French team (2013-2015)

Binet Boson de l'HixX

Students association for unusual lab visits and research collaborations at l'X. **Ecole polytechnique**
 2008–2010

Founder

Academics


PhD in Physics

Specialty : quantum mechanics **Université Pierre-et-Marie-Curie (Paris)**
 2016

Engineer degree

Academic promotion X2008, Multidisciplinary scientific training **École polytechnique (Palaiseau)**
 2012

Master 2

International Centre for Fundamental Physics, Quantum Physics **École Normale Supérieure (Paris)**
 2011–2012

Summer school

Quark and Gluon Plasma with the ALICE collaboration **CERN (Geneva)**
 July–Aug 2011

Master 1

High Energy Physics **École polytechnique (Palaiseau)**
 2010–2011

Languages

- French (Mother tongue)
- German (Intermediate)
- English (Fluent)
- Japanese (Basics)