

# Benoît Pit-Claudé

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# PHD STUDENT IN EECS AT MIT

## Education

- 2020 - present **MIT** (EECS PhD), Cambridge, MA.  
Advisors: Manya Ghobadi, Muriel Médard.
- 2018 - 2020 **Stanford University** (EE M.Sc.), Stanford, CA.  
Communication and Networking track. Classes include Digital Communications (Intro and Advanced), Wireless Communications, Information Theory, Building an Internet Router (P4/NetFPGA), Performance Engineering of Computer Systems & Networks, Linear Dynamic Algebra, Convex Optimization, Fourier Series, Cryptocurrency and Blockchain, Computer Systems Architecture, Machine Learning, Device Fabrication (IC and MEMS), and Semi-Conductor Devices.
- 2015 - 2018 **École Polytechnique** (Cycle Ingénieur), Palaiseau. France's most selective science and engineering school. Admitted with rank 265/428, graduated with rank 173/428. GPA 3.86/4.  
- Third year: Master of Engineering in Electrical Engineering. Classes includes Networking, Information Theory, Signal Processing IC and VLSI design. First year & second year: Curriculum includes six months community service. Students are encouraged to select a custom broad set of courses. My choices were Computer Science, Fundamental Physics, Fluid Dynamics, Big Data Processing, Biology, Economy of the Firm, Law, Political Science and History.  
- Year long scientific group project analyzing nationwide medical databases and care pathways  
- 4-month Carbon Nanotube Field-Effect Transistor fabrication & testing project, including cleanroom experience.
- 2013 - 2015 **Lycée Louis le Grand preparatory classes** (PC), Paris. Majoring in Mathematics and Physics with a minor in Chemistry. Modules include Mathematics (Analysis and Linear Algebra), Physics (EE, Electromagnetism, Optics, and Mechanical Engineering), Chemistry and Computer Science.

## Professional experience

- 2019 Hardware Engineering Intern, **Cisco Systems**, San Jose, CA, US (3 months):  
- Hardware engineer in the Data Center Business Unit  
- Worked on signal integrity for Cisco's Data Center Switch (Nexus product line),  
- Helped with both practical (boards bring up) and simulation (Keysight ADS) work.
- 2018 - 2019 Research Assistant, Pervasive Wellbeing Technology lab, **Stanford University**, Stanford, CA (9 months):  
- Focus of the lab is finding innovative ways to keep people healthy, sleeping well and performing at their best using subtle or subliminal interventions throughout their days.  
- Designed and ran studies for a haptic biofeedback device embedded in cars to help commuters,  
- Co-designed an entrainment display system, trying to subliminally generate relaxing brainwaves in users. **Poster** was published at the 4th Symposium on Computing and Mental Health at CHI 2019.
- 2018 Research Intern, **Cisco Systems**, Paris, France (4 months):  
- Developed and evaluated a stateless and load-aware load-balancing for data center prototype,  
- Research led to a **publication at the P4EU workshop at ICNP 2018**,  
- Was awarded *École Polytechnique's research internship award*.
- 2017 Web Development Intern, **AXA Life Japan**, Tokyo, Japan (2 months):  
- Developed in-house web applications in a pilot agile team,  
- Developed JavaScript plugins for *MyAXA* (customer relation website and app).
- 2015 - 2016 Volunteer Assistant Teacher, **Lycée du Parc**, Lyon, France (6 months):  
- Set up and taught tutoring sessions (circa 15 hours/week) for high school and preparatory classes students in math, physics and chemistry,  
- Jointly managed communication and events organization for the institution, and revived the *Lycée du Parc* Foundation's newsletter in order to stimulate donations.

## Community Service and Extra-Curricular activities

- 2018 Selected to represent *École Polytechnique* at the 2018 **French Debating Association tournament**.
- 2015 - 2016 **Tutored** classmates to improve their English-speaking skills as part as a teaching-for-credit program.
- 2011 - 2013 Ranked 5th at the **Paris Chemistry Olympiad**, was selected to the training program for **International Mathematical Olympiad**, and self-built a wave flume to study stationary waves for the **French National Physics Olympiad**.
- 2012 Volunteered for **community service** in Grand Teton National Park, WY (trail maintenance for 3 weeks).
- 2011 Participated to the National Latvian session of the **European Youth Parliament** as part of the French delegation.

## Skills

- Languages:** **French** (mother tongue), **Spanish** (intermediate), **Japanese** (beginner)
- Programming:** Python, Java, P4, HTML, CSS, PHP, JavaScript. Familiar with Agile Development and Linux kernel module development.
- Other:** Experience with cleanroom fabrication, photolithography, CVD and PVD, chip verification using SEM and Raman spectroscopy; Virtuoso Layout Suite (Cadence), ADS (Keysight), VNA testing.

## Interests

Skydiving, soccer, skiing and badminton. Trekking and traveling around the world.