

HASSAN SAADI

Email: hsaadi13@bu.edu

Education:

- Ph.D. Boston University (BU), USA (Started in September 2017):
 - Computer Science
- M.S. University of British Columbia (UBC), Canada (December 2016):
 - Mathematics (Thesis in Quantum Field Theory and Particle Physics)
- M.S. American University of Beirut (AUB), Lebanon (June 2015):
 - Physics (Thesis in Dark Matter and Cosmology)
- B.E. American University of Beirut, Lebanon (June, 2013):
 - Major: Electrical and Computer Engineering
 - Minors: Physics and Philosophy

Publications:

- “A Cosmological Solution to Mimetic Dark Matter” by Hassan Saadi <https://inspirehep.net/record/1328479> (or [10.1140/epjc/s10052-015-3856-0](https://arxiv.org/abs/10.1140/epjc/s10052-015-3856-0))

Programming, Computer Skills, & Languages:

- Python, C++, Java, MATLAB, Mathematica, Z3 (SAT solver), HTML, LaTeX, VHDL, LabVIEW, Assembly Language MIPS, PSpice, SPICE, Cadence, and PowerWorld simulator.
- Native speaker in Arabic and fluent in English.

Work Experience:

- **Boston University/ Computer Science Department:**
Graduate Teaching Assistant in Combinatoric Structures CS131 (January-May 2019) and (September-December 2019):
Taught labs on a weekly basis and held office hours. Corrected exams.
- **Boston University/ Computer Science Department:**
Graduate Teaching Assistant in Introduction to Computer Science II CS112 (January-May 2018) and (September-December 2018):
Taught labs on a weekly basis and held office hours. Corrected exams.
- **Boston University/ Computer Science Department:**
Graduate Teaching Assistant in Algebraic Algorithms CS235 (September-December 2017):
Taught discussion sessions on a weekly basis and held office hours. Corrected exams and assignments.
- **University of British Columbia/ Mathematics Department:**
Graduate Teaching Assistant in Linear Systems MATH152 (January-April 2016), and Matrix Algebra MATH221 (September-December 2016): Taught review sessions and corrected exams.
- **University of British Columbia/ Mathematics Department:**

Graduate Teaching Assistant in the Mathematics Learning Center (MLC) (January-April 2016): Worked for 12 hours per week helping students with their assignments in multiple math courses.

- **University of British Columbia/ Mathematics Department:**
Graduate Teaching Assistant in Differential Calculus for Social Science & Commerce MATH184 workshops (September-December 2015): Taught 5 workshops every week. Corrected and invigilated exams. Evaluated students performance and answered questions in and out of class.
- **American University of Beirut/ Physics Department:**
Lab Instructor of Electricity & Magnetism Lab PHYS211L (September-December 2014), and Physics for Life Science Lab PHYS103L (January-May 2015): Performed 10 experiments per semester, once per week. Corrected and invigilated exams. Evaluated students performance and answered questions in and out of class
- **Dar Al-Handasah Company: Site & Design Engineer (July-September 2012):**
Trained as a power and control electrical engineer, in the fields of circuit breakers, switch gears, building management system, and sensors, in the project of King Saud Bin Abdulaziz University for Health Sciences.

Awards:

- BU Graduate Fellowship 2017-2022.
- UBC International Tuition Scholarship for 2015 & 2016.
- UBC Faculty of Science Graduate Award for the Winter Session of 2016.

Extracurricular and Volunteering Activities:

- Usher during graduation ceremony in 2011 at AUB
- Orientation Guide for new students during the summer of 2011 at AUB.
- Music:
 - Played the violin for 8 years
 - Composed music pieces for string quartet, solo violin, etc.
- Chess