DIMITRIOS KOUTENTAKIS

dkoutentakis.me

EDUCATION

Massachusetts Institute of Technology (MIT) Cambridge, MA
Masters of Engineering in **Artificial Intelligence**. *December 2019*
Bachelor of Science in **Electrical Engineering** and **Computer Science** ⋄ GPA: 4.64/5.00 *June 2018*
Minor in **Mechanical Engineering**.
Coursework: Adv. Machine Learning (6.867); Artificial Intelligence (6.034); Computer Vision (6.819); Computational Statistics (18.s096); Statistics, Computation & Applications (IDS.131); Matrix Methods (18.065); Stochastic Processes (18.615); Feedback System Design (6.320); Robotics (6.141); Power Electronics (6.131); Macroeconomics (14.02); Managerial Finance (15.401); Corporate Finance (15.402).

Hellenic American Educational Foundation Psychico, Greece
Class Valedictorian ⋄ GPA: 19.60/20.00 ⋄ 3^{rd} place in National EU Science Olympiad. *Sep. 2011-Jun 2014.*

EXPERIENCE

Arrowstreet Capital Summer Intern - Portfolio Management Group *Jun.- Sept. 2019 ⋄ Boston, MA*
· Performed research on trade execution and market microstructure.

IBM Watson AI Lab Graduate Research Extern *Jan.- Feb. 2019 ⋄ Cambridge, MA*
· Performed research on Artificial Intelligence Explainability.
· Developed web app for deep neural network visualization and output decision explanation against adversarial attacks.

Boston Consulting Group Summer Analyst Intern *Jun. – Aug. 2018 ⋄ Athens, Greece*
· Developed proposal for petroleum industry leader project.
· Launched BCG-wide internal tech-related project & presented to international Senior Partners with team.

Massachusetts General Hospital Research Assistant at Psychiatry Department *Jan. - Feb. 2018 ⋄ Boston, MA*
· Studied and designed socially assistive AI-powered robots for Alzheimer's and dementia patients.

Tenaron Capital Management Trading Analyst Intern *Jul. – Sept. 2017 ⋄ New York, NY*
· Developed tool to price bond optionality embedded in delivery of Treasury Bond Futures contracts.
· Presented analysis of long & medium term futures contracts to senior management team.

Siemens AG Engineering Intern *Jul. - Aug. 2016 ⋄ Stuttgart, Germany*
· Designed & built GUI to calculate photovoltaic power production at any location.
· Developed tool to maximize profits, optimizing solar panel and battery sizes. Presented results to international clients.

Accusol GMBH Engineering Intern *Jan. - Feb. 2016 ⋄ Athens, Greece*
· Improved output efficiency by 10% by analyzing solar energy production and storage system data.
· Visited and evaluated remote locations to identify suitable sites for implementation.

RESEARCH

MIT Computer Science & Aritificial Intelligence Lab (CSAIL) Research Assistant *Feb. '18 - Pres. ⋄ Cambridge, MA*
· Developing AI driving model for research on self-driving car safety
· Developing subsystem that would reliably take over in risk of collision.

MIT Parsons Lab Research Assistant *Aug. 2018 - Feb. 2019 ⋄ Cambridge, MA*
· Conducting research on making NASA's SMAP satellite mission more energy efficient.
· Analyzed data and wrote Machine Learning algorithms to optimize data collection and analysis on the field.

MIT Media Lab Undergraduate Researcher *Dec. 2016 – May 2017 ⋄ Cambridge, MA*
· Helped develop platform for manipulation of droplets and micro robots under the Tangible Media group.
· Programmed droplet manipulations on microcontroller · Designed multiple PCB boards on EAGLE.
· Developed Web-App using Node.js and WebSockets to allow control of the platform over the internet.

LEADERSHIP

Delta Psi Fraternity President *Spring '16, Fall '16 ⋄ Cambridge, MA*
· Successfully handled membership and fraternity house issues. Led renovations, flooding crisis w/ damages $> \$24,000$.

Delta Psi Fraternity Webmaster *Fall 2015 - Fall 2016 ⋄ Cambridge, MA*
· Managed and maintained fraternity website and databases

Hellenic American Educational Foundation President of Student Government *2013 – 2014 ⋄ Psychico, Greece*

SKILLS/INTERESTS/PROJECTS

Projects: BLDC PID motor controller with regenerative breaking, Self-standing robot, Remote door lock, IR radar, etc. (dkoutentakis.me), Randomly turning train toy product.

Technical: Python, Pandas, SPARK, SQL, PyTorch, Tensorflow, Git, Arduino, ROS, `MATLAB`, LaTeX, R, Julia, Bash, Linux, SolidWorks, Eagle PCB Design, HTML, D3, C++, Microsoft VBA, Excel, PowerPoint.

Languages: English (native), Greek (native), French (advanced), German (basic).

Extracurricular: Piano, Saxophone, Sailing, Rowing, Swimming, Windsurfing, Scuba Diving, Tennis, Snow&Water Skiing.