

# Christos Karageorgiou Kaneen

Neuroscience & AI Researcher, Software Engineer

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## EDUCATION

-  **University of Crete** Heraklion, GR  
*M.Sc., Neuroscience, School of Medicine* Oct. 2021 - Feb. 2024
-  **Technical University of Crete** Chania, GR  
*M.Eng., Electrical & Computer Engineering, School of ECE* Sept. 2014 - Dec. 2019

## RESEARCH EXPERIENCE










-  **Banerjee Lab,**  **Cold Spring Harbor Laboratory** New York, USA  
*Neuroscience & AI Researcher (NeuroAI Research Intern)* Summer 2024  
Exploring how learned behavior evolves into instinct.
-  **Kording Lab,**  **University of Pennsylvania** Philadelphia, USA  
*Neuroscience & AI Researcher (Visiting Scholar)* Dec. 2022 - March 2023  
Led a project of meta-learning synaptic plasticity rules for exploring how gradient descent can best be approximated.
-  **Poirazi Lab,**  **FORTH** **IMBB-FoRTH** Heraklion, GR  
*Neuroscience & AI Researcher (Intern, M.Sc. Fellow)* July 2022 - April 2024
  - Wrote a [research proposal](#).
  - [Explored basic dendritic properties of neurons computationally](#).
  - Continued the work I started at the [Kording Lab](#) as a thesis project.

## WORK EXPERIENCE

-  **mist.io** (acquired by  **Dell**) Remote  
*Software & Infrastructure Engineer* April 2021 - July 2022  
Developed features and fixed issues having to do with machines, stacks, networks, scripts and other resources managed by the platform (mainly within the *api* and *tests* submodules of both community and enterprise editions). I also worked on outlining and implementing the API and functional tests of a distributed micro-services project for  **Juniper Networks**. See [my public contributions on mist-ce](#).
-  **Greek Research & Technology Network** Remote  
*Software Engineer & Maintainer* May 2020 - April 2021  
Contributed to reducing Greece's public sector bureaucracy: built, alongside one lead developer, v1 of  **MITOS**: the National Registry of Public Services (Εθνικό Μητρώο Διαδικασιών). See [diavlos](#).
-  **MYRMEX** **Myrmex** (acquired by  **Ocado**) Athens, GR  
*Software Engineer* Sept. 2019 - March 2020
  - **Power monitor application:** Implemented a real-time GUI that displays the current battery state of each running robot.
  - **gRPC clients:** Implemented gRPC client proxies for the APIs of two key system components.
  - **Bug-reporting tool:** Implemented a bug-reporting automation tool for gathering diagnostics for whenever a bug or problem occurred. This tool decreased the time required for data collection from more than 20 min. to 15 sec.


## INTERNSHIP EXPERIENCE

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-  **Larkum Lab, Humboldt University of Berlin** Remote  
*Software & Hardware Engineer* Jan. 2021 - Aug. 2021  
Implemented a prototype of an experimental neuroscience protocol for the Larkum and Kremkow labs. This work was done in my free time, on weekends and it was based on [my previous work](#). See  [airtrack](#).
- **Technical University of Crete** Chania, GR  
*Network Administrator* Nov. 2018 - June 2019
  - Learned to do various system and network administration tasks.
  - Secured network printers, etc.
  - Read the  [UNIX and Linux System Administration Handbook](#).
-  **Oracle** Athens, GR  
*Database Administrator* Oct. 2018 - Nov. 2018
  - Familiarized myself with Oracle DB 12c internals and did day-to-day DBA tasks.
  - Brushed up (PL/)SQL skills.
-  **Google Summer of Code** Athens, GR  
*Software Engineer* Summer 2018  
Using NLP and ML techniques, I implemented a tool for the  [GFOSS Open Technologies Alliance](#) that extracts Responsibilities assigned to Public Administration Organizations from Greece's Official Government Gazette documents. See [ggx](#).
-  **Open Lab Athens** Athens, GR  
*Software Engineer* July 2017 - Sept. 2017
  - Debugged the beta version of the  [Iris SMS](#) Android app.
  - Implemented a smart pen ( [Neo N2](#)) GUI for getting stats and syncing form data.

## VOLUNTEER EXPERIENCE

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- **Poirazi Lab** Remote  
*Software Engineer* July 2020 - May 2021  
Volunteered on  [PyBpod](#), a programming interface for the Bpod: a system for precise measurement of small animal behavior. This work was done in my free time, on weekends. See [pybpod](#).

## SUPERVISOR EXPERIENCE

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- [Henry J. Flynn](#) @ **Poirazi Lab**, April – August 2023:  [Drexel University](#) mechanical engineering student who under my guidance built upon my [volunteer contribution](#) and improved the [Mouse2AFC protocol](#).

## AWARDS, FELLOWSHIPS & FUNDING

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- 2023 – 2024
  - [IMBB-FoRTH MSc fellowships](#) (July 2023 – April 2024, **Poirazi Lab**) : 5000€
  - [Erasmus+/IKY funding](#) (June 2024 – Aug. 2024, **CSHL travel & stay**): 3600€
  - [CSHL NeuroAI Research Intern funding](#) (June 2024 – August 2024, **Banerjee Lab**) : \$19,500
- 2022 – 2023
  - [Erasmus+/IKY funding](#) (Dec. 2022 – March 2023, **UPenn travel & stay**): 4500€
  - [UPenn Visiting Scholar funding](#) (Dec. 2022 – March 2023, **Kording Lab**) : \$6000

## CONFERENCES & SUMMER SCHOOLS

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- **MLSS**  **MLSS 2024: Machine Learning Summer School 2024**, Okinawa, Japan, March 2024 ([poster](#))

## PUBLICATIONS

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1. Christos Karageorgiou Kaneen, “*Meta-learning synaptic plasticity rules to approximate gradient descent*”, M.Sc. Thesis, School of Medicine, University of Crete, Heraklion, Greece, 2024 (<https://elocus.lib.uoc.gr/dlib/0/c/8/metadata-dlib-1713262345-844945-28206.tkl>)
2. Christos Karageorgiou Kaneen, “*Methodology for designing GDPR compliant IoT applications*”, M.Eng. Thesis, School of Electrical and Computer Engineering, Technical University of Crete, Chania, Greece, 2019 (<https://doi.org/10.26233/heallink.tuc.84151>)
3. C.K. Kaneen, E.G.M. Petrakis, “*Towards evaluating GDPR compliance in IoT applications*”, Procedia Computer Science, Volume 176, 2020, Pages 2989-2998 (<https://doi.org/10.1016/j.procs.2020.09.204>)