

Christos Karaneen (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., School of Electrical & Computer Engineering Sept. 2014 - Dec. 2019









RESEARCH EXPERIENCE

-  **Banerjee Lab,**  **Cold Spring Harbor Laboratory** New York, USA
Neuroscience & AI Researcher (NeuroAI Research Intern) June 2024 - Nov. 2024
Explored how learned behavior evolves into instinct. See [poster](#).
-  **Kording Lab,**  **University of Pennsylvania** Philadelphia, USA
Neuroscience & AI Researcher (Visiting Scholar) Dec. 2022 - March 2023
Investigated how meta-learning synaptic plasticity rules can best approximate gradient descent.
See [poster](#) and [thesis](#).
-  **Poirazi Lab,**  **IMBB-FoRTH** Heraklion, GR
Neuroscience & AI Researcher (Intern, M.Sc. Fellow) July 2022 - April 2024
 - Examined the computational properties of dendrites. See [nobrianer](#).
 - Continued the work I started at the [Kording Lab](#). See [poster](#) and [thesis](#).


INDUSTRY WORK EXPERIENCE

-  **mist.io** (acquired by  **Dell**) Remote
Software & Infrastructure Engineer April 2021 - July 2022
 - Platform features and issues:** Developed features and addressed issues having to do with machines, stacks, networks, scripts and other resources managed by the platform within the *api* and *tests* submodules of both community and enterprise editions. See [my contributions on mist-ce](#).
 - Third-party company tests:** Outlined and implemented the API and functional tests of a distributed micro-services client project for 
-  **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, and maintained the v1 of  **mitos**: the Greek National Registry of Public Services (Εθνικό Μητρώο Διαδικασιών). See [diavlos](#).
-  **Myrmex** (acquired by  **Ocado**) Athens, GR
Software Engineer Sept. 2019 - March 2020
 - Power-monitoring application:** Created a GUI that displays in real time the battery state of each robot.
 - gRPC clients:** Ported gRPC client proxies for the APIs of two key system components.
 - Bug-reporting tool:** Implemented a bug-reporting tool that automatically gathers diagnostics whenever a bug or issue arises, decreasing the time required to collect data from more than 20 min. down to 15 sec.

ENGINEERING INTERNSHIP EXPERIENCE

-  **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 based on [my previous work](#). See  [airtrack](#).
- **Technical University of Crete** Chania, GR
Network Administrator Nov. 2018 - June 2019
 - Learned to do 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 by doing day-to-day DBA tasks.
 - Brushed up my SQL skills.
-  **Google Summer of Code, GFOSS Open Technologies Alliance** Athens, GR
Software Engineer Summer 2018
Implemented a tool 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.
 - Made a GUI for getting stats and syncing form data from a smart pen ( [Neo N2](#)).

VOLUNTEER EXPERIENCE

- **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.
 - Implemented emulator functionality for the Bpod device. See my contributions to the [pybpod submodules](#).
 - Created v1 of the 2AFC experimental neuroscience protocol. See [mouse2afc](#).






SUPERVISOR EXPERIENCE

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

AWARDS, FELLOWSHIPS & FUNDING

- 2023 – 2024
 - [BRAIN NeuroAI Early-Career Scholar](#), NIH/DARPA **honorarium** (Nov. 12 – 13, 2024): \$400
 - [CSHL NeuroAI Program](#) **funding** (June – Nov. 2024, [Banerjee Lab](#)): \$40000
 - [Erasmus+/IKY](#) **funding** (June – Aug. 2024, [CSHL travel & stay](#)): 3600€
 - [IMBB-FoRTH](#) MSc **fellowships** (July 2023 – April 2024, [Poirazi Lab](#)): 5000€
- 2022 – 2023
 - [UPenn Visiting Scholar](#) **funding** (Dec. 2022 – March 2023, [Kording Lab](#)) : \$6000
 - [Erasmus+/IKY](#) **funding** (Dec. 2022 – March 2023, [UPenn travel & stay](#)): 4500€

CONFERENCES, WORKSHOPS & SUMMER SCHOOLS

-  [BRAIN NeuroAI Workshop 2024](#) @  Bethesda, Maryland, USA ([poster](#))
-  [NAISys2024: From Neuroscience to Artificial Intelligence 2024](#) @  Cold Spring Harbor Laboratory, New York, USA
- [MLSS2024: Machine Learning Summer School 2024](#) @  OIST, Okinawa, Japan ([poster](#))

PUBLICATIONS

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. Christos Karageorgiou 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>)