| Last name: | Karamanlis |
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| First name: | Dimokratis |
| Nationality: | Greek |
| Date of birth: | November 28, 1991 |
| Position: | Postdoctoral researcher |
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EDUCATION \& TRAINING

| 05/2022 | CAJAL Advanced Neuroscience Training <br> Neural circuit basis of computation and behaviour (France) <br> Directors: Fritjof Helmchen, Andreas Frick, Cyril Herry <br> Project supervisors: Lisa Roux, Naoya Takahashi |
| :--- | :--- |
| $10 / 2017-02 / 2022$ | PhD in Neuroscience <br> International Max Planck Research School for Neurosciences (Germany) <br> Thesis: How nonlinear processing shapes natural stimulus encoding in the retina <br> Supervisor: Tim Gollisch / Defense date: 23/02/2022 <br> Grade: summa cum laude |
|  | Master in Neuroscience <br> International Max Planck Research School for Neurosciences (Germany) |
| Thesis: Spatial integration in mouse retinal ganglion cells |  |
| Supervisor: Tim Gollisch |  |
| Grade: 1.1 (1.0 down to 5.0) |  |

EMPLOYMENT HISTORY

| $02 / 2023-$ | Postdoctoral researcher <br> Laboratory of Sami El-Boustani, University of Geneva (Switzerland) <br> $04 / 2022-12 / 2022$ |
| :--- | :--- |
| Postdoctoral researcher <br> Laboratory of Tim Gollisch, University Medical Center Göttingen (Germany) <br> $05 / 2017-03 / 2022$ | Graduate researcher <br> Laboratory of Tim Gollisch, University Medical Center Göttingen (Germany) |


| $09 / 2023-08 / 2024$ | Swiss Government Excellence Scholarship for postdoctoral research |
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| $08 / 2021$ | Best poster award, Retinal Circuits Symposium (online) |
| $01 / 2018-09 / 2020$ | Boehringer Ingelheim Fonds PhD fellowship |
| $11 / 2018$ | Nomination for the Lindau Nobel Laureate Meeting (Physics) <br> by the Göttingen Graduate Center for Neurosciences, Biophysics, and Molecular <br> Biosciences |
| $10 / 2015-05 / 2017$ | Study scholarship for graduates of all disciplines <br> German Academic Exchange Service (DAAD) |
| $03 / 2009$ | Bronze medal in National Mathematical Olympiad <br> Hellenic Mathematical Society |

## TEACHING

| $05 / 2019$ | Course instructor (for graduate students) <br> Introduction to spike-train analysis with Python <br> Göttingen Graduate Center for Neurosciences, Biophysics, and Molecular <br> Biosciences (Germany) |
| :--- | :--- |
| $03 / 2019$ | Course instructor (for Master students) <br> Vision (retina, lateral geniculate nucleus, primary visual cortex) <br> International Max Planck Research School for Neurosciences (Germany) |
| $03 / 2017-04 / 2018$ | Rotation project supervision (for Master students) <br> Two-month projects on analysis of multielectrode-array data from the retina <br> International Max Planck Research School for Neurosciences (Germany) |
| Course instructor (for medical students) <br> Personal Health Record module of Medical Informatics I course <br> Aristotle University of Thessaloniki (Greece) |  |

CONFERENCE CONTRIBUTIONS

03/2022 COSYNE 2022, Poster (Portugal)
08/2021
09/2019
Retinal Circuits Symposium, Poster (online)
06/2019
European Retina Meeting 2019, Poster (Finland)
03/2019
09/2018
Rank Prize Funds Symposium, Talk (UK)
$13^{\text {th }}$ Meeting of the German Neuroscience Society, Talk (Germany)
10/2017
Bernstein Conference 2018, Poster (Germany)
03/2017
European Retina Meeting 2017, Poster (France)
07/2012
$12^{\text {th }}$ Meeting of the German Neuroscience Society, Poster (Germany)
Protection and Restoration of the Environment XI, Talk (Greece)

## SELECTED CONFERENCES, WORKSHOPS, AND RESEARCH TRAINING

06/2019
05/2016 - 06/2016
10/2014

69th Lindau Nobel Laureate Meeting on Physics (Germany) Research in theoretical neuroscience with Viola Priesemann (Germany) Workshop on Analysis and Models in Neurophysiology (Germany)

09/2013
10/2011-10/2013
03/2012-10/2012
10/2011-10/2012

11th Summer Course on Computational Neuroscience (Germany)
Research in neurophysiology with Efstratios Kosmidis (Greece)
Research in participatory sensing with Kostas Karatzas (Greece)
Research in medical informatics with Panagiotis Bamidis (Greece)

## PUBLICATIONS \& PREPRINTS

Karamanlis D, Khani MH, Schreyer HM, Zapp SJ, Mietsch M, Gollisch T (2023).
Natural stimuli drive concerted nonlinear responses in populations of retinal ganglion cells. bioRxiv, doi: 10.1101/2023.01.10.523412.

Nitsche S, Khani MH, Karamanlis D, Erol YC, Zapp SJ, Mietsch M, Protti DA, Rozenblit F, Gollisch T (2022). Diversity of Ganglion Cell Responses to Saccade-like Image Shifts in the Primate Retina.
bioRxiv, doi: 10.1101/2022.08.12.503725.
Karamanlis D, Schreyer HM \& Gollisch T (2022).
Retinal encoding of natural scenes.
Annual Review of Vision Science, 8:171-193.
Jian K Liu, Karamanlis D \& Gollisch T (2022).
Simple model for encoding natural images by retinal ganglion cells with nonlinear spatial integration.
PLoS Computational Biology, 18(3):e1009925.
Karamanlis D \& Gollisch T (2021).
Nonlinear Spatial Integration Underlies the Diversity of Retinal Ganglion Cell Responses to Natural Images. Journal of Neuroscience, 41(15):3479-3498.

Karamanlis D, Tzitzis P, Bratsas C \& Bamidis P (2012).
Personal health records in the preclinical medical curriculum: modeling student responses in a simple educational environment utilizing Google Health.
BMC Medical Education, 12:88.

