

Chemin du Calvaire 9

1005 Lausanne

Switzerland

+41782650429

✉ [chris.sourmp@gmail.com](mailto:chris.sourmp@gmail.com)

 Christos Sourmpis

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## Education

- 2019–Present **Ph.D. in Computational Neuroscience**, *EPFL*, Lausanne, Switzerland.
- Ph.D. Advisors: Prof. Wulfram Gerstner and Prof. Carl Petersen
  - Research: Data-constrained spiking recurrent neural network for sensor-to-motor pathways.
  - Collaborated on experimental data analysis pipelines.
- 2013–2018 **Diploma in Electrical and Computer Engineering**, *University of Patras*, Patras, Greece.  
GPA: 9.13/10, Ranked first of my year
- 2017–2017 **Erasmus Exchange Program**, *Graz University of Technology*, Graz, Austria.

## Industry Experience

- 2019 **R&D Engineer**, *SynSense - Neuromorphic Hardware Company*, Zurich, Switzerland.  
Continued work on the same project with a focus on hardware constraints. Investigated other methods for speech processing, e.g., Self-Organized Map with Tempotron inference.
- 2018–2019 **Internship**, *SynSense - Neuromorphic Hardware Company*, Zurich, Switzerland.  
Research on audio signal to spikes conversion methods (silicon cochlea models). Developed an end-to-end pipeline system for keyword detection using a static spiking neural network reservoir.

## Publications

- 2023 **Sourmpis C**, Petersen CCH, Gerstner W, & Bellec G. Trial matching: capturing variability with data-constrained spiking neural networks. Thirty-Seventh Conference on Neural Information Processing Systems (NeurIPS)
- 2023 Oryshchuk A, **Sourmpis C**, ..., Petersen CCH & Crochet S. Distributed and specific encoding of sensory, motor and decision information in the mouse neocortex during goal-directed behavior. Accepted in Cell Reports.
- 2023 Bech P, Crochet S, ... Petersen CCH & **Sourmpis C**. Striatal Dopamine Signals and Reward Learning. Function.

## Languages

Greek Native  
English Advanced proficiency

IELTS 7.5/9 – C1