

# Anthony Jakob

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Murifeldweg 62  
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## EDUCATION

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Since 2019	<b>M.Sc. Life Sciences Engineering   EPFL</b> Minor in Computational Neurosciences.
2018 – 2019	<b>Exchange year, Biomedical Engineering   UBC</b>
2016 – 2019	<b>B.Sc. Life Sciences Engineering   EPFL</b>
2015 – 2016	<b>Bachelor of Medicine (60 ECTS)   University of Bern</b> First year of medicine studies.
2014 – 2015	<b>B.Sc. Physics (13 ECTS)   University of Bern</b> First year courses from the B.Sc. in Physics. Program for gifted high school students.
2011 – 2015	<b>Gymnasial Matura in Physics and Applied Mathematics   Gymnasium Kirchenfeld, Bern</b>

## AWARDS

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2021 – 2022	<b>Bertarelli Fellowship in Translational Neuroscience and Neuroengineering   EPFL and HMS</b> Funded Master's thesis at Harvard Medical School.
2019 – 2021	<b>Excellence Fellowship   EPFL and Novartis</b> For students with outstanding academic records, renewed in 2020.
2015	<b>Meyer Award   Gymnasium Kirchenfeld, Bern</b> Excellence in natural sciences.

## RESEARCH EXPERIENCE

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Since 2021	Neural signatures of policy compression in reinforcement learning (MATLAB and Julia).
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- 2020 Connecting theoretical formulations of surprise and surprise-based learning in the human brain to experimental data (Julia).
- 2018 Simulation of a sparsely connected network of excitatory and inhibitory neurons (C++, Python).
- 2018 Cloning and expression of pancreatic alpha-amylase in a mammalian cell culture (PCR, Western blot, SDS-Page, Bacterial transformation).

## PROFESSIONAL EXPERIENCE

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- Since 2020 **Lead software engineer | Clubhouse Hockey**  
Flutter, Dart, Typescript.
- 2020 – 2021 **Data manager | CHUV, Center for Personalized Oncology**
- 2020 **Lead software engineer | MYDIO**  
Angular, Symfony, Typescript, PHP.
- 2017 – 2020 **Teaching assistant | EPFL**  
Projects in Computer Science.  
General Physics: Electromagnetism.  
General Physics: Quantum Physics.  
Advanced General Chemistry.  
ICC (Information, Communication, Computation).  
Organic Chemistry.
- 2017 – 2020 **Software engineer | Infinight**  
Angular, Node.js, Typescript, Java.
- Since 2016 **Membership in student-run clubs | EPFL**  
Co-Founder at Data Analytics Group.  
Lead Data Analyst at AIESEC Lausanne.  
Vice-president of the events committee at AESV.  
Webmaster at AESV.  
Coach for first-year students.  
Webmaster at Dancesquare.
- 2015 **Substitute teacher | Gymnasium Kirchenfeld**  
Mathematics in English for second-year high school students.

Since 2012

**Software engineer for web-based projects | Peakweb**  
[www.peakweb.ch](http://www.peakweb.ch)

## LANGUAGES

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French	Native
German	Native
English	Fluent (C2, Certificate of Proficiency in English, May 2015)
Italian	Intermediary (B1)
Spanish	Intermediary (B1)