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Cohen Ethan

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I am passionate about machine learning applied to biomedical sciences. I also have a strong interest in entrepreneurship. I have hands-on experience from academia and industry and am now devoted to research and entrepreneurial programs. My main expertise revolves around computer vision for biomedical images. I am a researcher with a mathematical background, eager to learn about important problems and find impactful solutions.

EDUCATION

Phd Student in machine learning for drug discovery , <i>Ecole Normale Supérieure Paris</i> Deeptech Institute , <i>PSL</i>	2021- Present 2022
<i>Courses: Deeptech entrepreneurship, Intellectual property and valorisation and Strategic management of technology and innovation</i>	
Master 2 MVA (Mathematics, Vision and Learning) , <i>Ecole Normale Supérieure Paris-Saclay</i>	2019-2020
Master 1 in Applied Mathematics , <i>Université Paris-Dauphine</i>	2018-2019
Bachelor in Applied Mathematics , <i>Université Paris-Dauphine</i>	2014-2017

EXPERIENCE

AI Research Scientist <i>Synsight</i>	2021 — Present <i>Paris, France</i>
<ul style="list-style-type: none">Cifre Phd with ENS Paris, working on a strategy to find early stage drug candidate faster using image based drug discovery combined with structure based drug discovery.	
Talent Manager <i>Olam Ventures</i>	December-April 2021-2022 <i>Paris, France</i>
<ul style="list-style-type: none">Part of the recruiting team.	
Assitant VC Analyst <i>G Ventures</i>	September-May 2021-2022 <i>Paris, France</i>
<ul style="list-style-type: none">Part of the France's 1st Student VC Fund managed by students.Sourcing and analysis of various start-up.	
Data Scientist <i>French National Research Institute for Sustainable Development</i>	December-February 2020-2021 <i>Paris, France</i>
<ul style="list-style-type: none">PoC for malaria detection in microscopic images.	
Co-Founder, COO <i>DefensIA</i>	2019 - 2021 <i>Paris, France</i>
<ul style="list-style-type: none">Management of the commercial team and Business development.Product manager.	
Research Intern <i>European Bioinformatic institute</i>	June-November 2020 <i>Cambridge, UK</i>
<ul style="list-style-type: none">Deep learning for biological image segmentation.Statistical shape analysis for morphological characterization of early mouse embryos.	
Summer Camp Counselor <i>Moadon</i>	2017-2019 <i>Paris, France</i>
<ul style="list-style-type: none">Management of activities for teenagers (13-17 years) in France, Croatia and Crete.	
Data scientist Intern <i>Shortouch</i>	May-June 2017 <i>Paris, France</i>
<ul style="list-style-type: none">Analyzed Data to identify communities on social networks.Programmed scoring algorithms based on how you interact with your contacts online.	

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PUBLICATIONS

Conferences

- Masud, U.* ,**Cohen, E.***, Bendidi, I., Bollot, G. and Genovesio, A. Comparison of semi-supervised learning methods for High Content Screening quality control. ArXiv(2022), Accepted at ECCV BIM Workshop 2022.
- **E. Cohen** and V. Uhlmann, "Aura-Net: Robust Segmentation Of Phase-Contrast Microscopy Images with Few Annotations," 2021 IEEE 18th International Symposium on Biomedical Imaging (ISBI), 2021, pp. 640-644;

Pre-print

- **Ethan, Cohen**, Corbe Maxime, A. Franco Claudio, F. Vasconcelos Francisca, Perez Franck, Del Nery Elaine, Bollot Guillaume, and Genovesio Auguste. Cell Painting Transfer Increases Screening Hit Rate. bioRxiv (2022).
- Zheng, S.* , Rao, J.* , Zhang, J.,**Cohen, E.**, Li, C. and Yang, Y. Cross-modal Graph Contrastive Learning with Cellular Images. bioRxiv (2022).
- Lamiable, A.* , Champetier, T.* , Leonardi, F., **Cohen, E.**, Sommer, P., Hardy, D., Argy, N., Massougbojji, A., Del Nery, E., Cottrell, G. and Kwon, Y.J. Revealing invisible cell phenotypes with conditional generative modeling. bioRxiv(2022).

TALKS AND PRESENTATION

- Comparison of semi-supervised learning methods for High Content Screening quality control, **Contributed Talk**, ECCV 2022 BIM Workshop, Tel-Aviv, October 2022.
- Aura-net: robust segmentation of phase-contrast microscopy images with few annotations, **Poster**, ISBI 2021, Nice, France.

TEACHING

Teacher Assistant

Université Paris-Dauphine

2020-2021
Paris,France

- Teacher assistant (chargé de TD) in linear algebra for undergraduate student.

Teacher

Freelance

2018-2021
Paris,France

- Personal teacher in Mathematics for high school and undergraduate student.

SKILLS

Programming	Python (Numpy, Pandas, Scikit-learn,OpenCV, PyTorch, ..), \LaTeX , R, Matlab
Software	Office, Ilastik, ImageJ
Communication	French, English (fluent speaker), Hebrew (Beginner)

INTERESTS

Tennis (competition), Table Tennis, Soccer, Handball, Traveling, Reading, Music.