Cohen Ethan

+33783033828
Paris,France
ethan.cohen.pro@gmail.com

GitHub: ethancohen123
LinkedIn: ethan-cohen-179284105

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 resolves 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, *Ecole Normale Supérieur Paris*	2021- Present
Deeptech Institute, *PSL*	2022

Courses: Deeptech entrepreneurship, Intellectual property and valorisation and Strategic management of technology and innovation

Master 2 MVA (Mathematics, Vision and Learning), *Ecole Normale Supérieur Paris-Saclay*	2019-2020
Master 1 in Applied Mathematics, *Université Paris-Dauphine*	2018-2019
Bachelor in Applied Mathematics, *Université Paris-Dauphine*	2014-2017

EXPERIENCE

Data Scientist - Scientific advisor   **2022 — Present**
Metacognisia   *Paris, France*
- Part of the scientific board.

AI Research Scientist   **2021 — Present**
Synsight   *Paris, France*
- 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   **December-April 2021-2022**
Olam Ventures   *Paris, France*
- Part of the recruiting team.

Assitant VC Analyst   **September-May 2021-2022**
G Ventures   *Paris, France*
- Part of the France's 1st Student VC Fund managed by students.
- Sourcing and analysis of various start-up.

Data Scientist   **December-February 2020-2021**
French National Research Institute for Sustainable Development   *Paris, France*
- PoC for malaria detection in microscopic images.

Co-Founder and Head Manager   **2019 - 2021**
DefensIA   *Paris,France*
- Management of the commercial team and Business development.

Research Intern   **June-November 2020**
European Bioinformatic institute   *Cambridge, UK*
- Deep learning for biological image segmentation.
- Statistical shape analysis for morphological characterization of early mouse embryos.

Summer Camp Counselor   **2017-2019**
Moadon   *Paris,France*
- Management of activities for teenagers (13-17 years) in France, Croatia and Crete.

Data scientist Intern   **May-June 2017**
Shortouch   *Paris,France*
- 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., Massougbodji, A., Del Nery, E., Cottrell, G. and Kwon, Y.J. Revealing invisible cell phenotypes with conditional generative modeling. bioRxiv(2022).

TALKS

- **ECCV 2022 BIM Workshop, Tel-Aviv, October 2022:** Comparison of semi-supervised learning methods for High Content Screening quality control

TEACHING

Teacher Assistant   **2020-2021**
Université Paris-Dauphine   *Paris,France*

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

Teacher   **2018-2021**
Freelance   *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.