

# Philippe Hansen-Estruch

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## LINKS

[Google Scholar](#), [LinkedIn](#)

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## PROFILE

Passionate deep learning researcher with an interest in reinforcement learning (RL) and generative modeling.

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## EXPERIENCE

May 2022 — Aug 2023

### Machine Learning Scientist, Arena Technologies

- Implemented an offline RL algorithm to optimize prices based on prior per-customer purchase data
- Tinkered with Transformer architectures and objectives to improve future demand prediction of products

Apr 2021 — May 2023

### Researcher, BAIR - Robotics AI & Learning Lab (RAIL)

Berkeley, CA

- Advised by **Prof. Sergey Levine**, Worked with (now) Prof. Amy Zhang, Dr. Ilya Kostrikov, and Dr. Michael Janner
- Researched robust algorithms for goal-conditioned RL and offline RL
- Worked in areas of representation learning and deep reinforcement learning

Mar 2020 — May 2021

### Researcher, BAIR - Robotics Learning Lab (RLL)

Berkeley, CA

- Advised by **Prof. Pieter Abbeel**, Worked with (now) Prof. Stas Tomkin, and (now) Prof. Lerrel Pinto
- Worked on incorporating geometric priors to enhance the performance of Model Based RL

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## EDUCATION

May 2022 — May 2023

### Master of Science, University of California, Berkeley

Berkeley, CA

**Major:** Electrical Engineering and Computer Sciences (EECS)

**GPA:** 3.96, **Major GPA:** 4.0

**Thesis Link:** <https://www2.eecs.berkeley.edu/Pubs/TechRpts/2023/EECS-2023-62.html>

Aug 2018 — May 2022

### Bachelor of Science, University of California, Berkeley

Berkeley, CA

**Major:** Electrical Engineering and Computer Sciences (EECS); With an emphasis in AI and ML

**GPA:** 4.0, **Graduated with Highest Honors (Top 3% of Engineering Majors)**

**Awards:** Cal Alumni Leadership Award (2018-2019)

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## REPRESENTATIVE PUBLICATIONS

Jun 2023

### Goal Representations for Instruction Following: A Semi-Supervised Language Interface to Control

Vivek Myers, Andre He, Kuan Fang, Homer Walke, **Philippe Hansen-Estruch**, et al.

<https://arxiv.org/abs/2307.00117>

May 2023

### IDQL: Implicit Q-Learning as an Actor-Critic Method with Diffusion Policies

**Philippe Hansen-Estruch**, Ilya Kostrikov, Michael Janner, Jakub Grudzien Kuba, Sergey Levine

<https://arxiv.org/abs/2304.10573>

Apr 2022

### Bisimulation Makes Analogies in Goal-Conditioned Reinforcement Learning

**Philippe Hansen-Estruch**, Amy Zhang, Ashvin Nair, Patrick Yin, Sergey Levine

ICML 2022 - <https://proceedings.mlr.press/v162/hansen-estruch22a.html>