

Daniel Hyunsoo Lee

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RESEARCH EXPERIENCE & PROJECTS

Massachusetts Institute of Technology

Research Collaborator, *Improbable AI Lab*

Remote

Apr 2025 – Present

- Leading research on novel methods to leverage synthetic data from cellular automata for pre-pretraining transformers to enable useful inductive biases for visual reasoning and general language modeling tasks; **Preparing for submission as first co-author to ICML 2026**
- Developed scalable and efficient data and training pipelines for large transformer models and downstream evaluations on popular and novel vision and language-based tasks to examine the impacts of pretraining in differing synthetic environments

Multimodal Learning on Decision Transformers for Adversarial Robustness

Aug 2021 - Dec 2021

- Developed a multimodal Decision Transformer (DT) framework integrating proprioception, RGB, and depth data to learn vision-based robotic policies and improve adversarial robustness in offline reinforcement learning as part of a course project in Robotics Learning
- Implemented white-box (FGSM) and black-box (Gaussian noise) adversarial attacks on vision-based robotic policies to evaluate robustness
- Engineered and trained a convolutional variational autoencoder (CVAE) to extract latent embeddings from RGB and depth images to generate sequential inputs for the decision transformer model
- Conducted ablation studies to analyze the impact of different modality-based adversarial attacks on policies learned for the Franka Kitchen D4RL task; experiments demonstrated the robustness of multimodal DT models compared to single modal models

Burke Energy & Combustion Lab

New York, NY

NSF Undergraduate Research Intern

Jul 2019 – Aug 2019; May 2020 – July 2020

- Developed programs in Python to mine data from research journal graphs for uncertainty quantification models through a combination of image pre-processing, machine learning, template-based correlation matching, and clustering methods
- Assisted graduate students in developing, refactoring and improving quality of codebase for simulations and quantitative models

WORK EXPERIENCE

Bregal Sagemount

New York, NY

Technology Private Equity Associate, Flagship (\$8B AUM)

Aug 2024 – Present

- Prepare IC memos & operating models for buyouts & minority investments in software & services assets ranging from \$200M – \$1B in TEV
- Sourcing efforts led to 10+ proprietary deal opportunities being presented to the investment team in AI, software & tech-enabled services
- Developed programs to leverage popular LLMs to automate outbound email drafting and sourcing tasks for investment professionals

Evercore

New York, NY

Investment Banking Analyst, Technology M&A

Jul 2022 – Jun 2024

Investment Banking Summer Analyst, Generalist

Jun 2021 – Aug 2021

- Developed detailed operating and valuation models of private and public software, fintech, and IT services businesses for M&A transactions

Select Live Transaction Experience

- **Advised CommScope on the sale of its Home Networks Business to Vantiva (closed December 2023)**
 - Led all analytical workstreams on 3-person deal team for Fairness Opinion; conducted bespoke DCF, dis-synergy, and public comparables analysis to present how the transaction benefits shareholders based on 25% PF ownership in Vantiva and \$100M earn-out
 - Developed value creation model to evaluate and negotiate stock offer and earn-out across various operational and synergy cases
- **Argos: Potential \$500M sale of an Autonomous Logistics Robot Hardware and Software Provider**
 - Led construction of bottoms-up operating model, forecasting product volume, pricing, and subscriptions across 5+ offerings and 3 regions; addressed land-and-expand strategy, software growth, and penetration concerns via quantifiable KPIs and strategic overlay

Remeet App

New York, NY

Product Manager

Aug 2020 – Nov 2020

- Worked directly with start-up founders and software engineers to develop a college-oriented social media platform and application
- Managed an agile team and oversaw development and testing sprints in preparation for investor demos and IOS app launch

EDUCATION

Columbia University

New York, NY

Bachelor of Engineering in Computer Science (Intelligent Systems Track), Minor in Economics

August 2018 – May 2022

- **GPA:** 4.16/4.33, SAT: 750/800 (M/V). Graduated *Summa Cum Laude*
- **Honors / Activities:** Egleston Scholar (Merit-based Tuition and Research Grant); Dean's List; VP, Columbia Korean Student Association
- **Relevant Coursework:** Machine Learning, Artificial Intelligence, Robotics Learning, NLP, Analysis of Algorithms, Applied Deep Learning
- **Proficient:** Python (Jax / Torch) | C / C++ | Git | LaTeX | **Familiar:** Java | C# | React | Javascript | PHP | HTML / CSS

ADDITIONAL INFORMATION

- **Languages:** English (Native Speaker), Korean (Conversational)
- **High School:** Commack High School (June 2018), Regeneron STS (Semifinalist), Siemens Competition (Semifinalist), AIME (3x)
- **Interests:** Running, Poker, Bouldering, Hiking, Chess, Tottenham Hotspur, Esports, Tennis, Piano, Cooking