

Chris Rockwell

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EDUCATION

University of Michigan (College of Engineering)

Ann Arbor, MI

Master of Science, Computer Science and Engineering

Sep 2018 – May 2020

- **GPA:** 4.00 / 4.00 | **GRE Quantitative:** 170/170
- **Relevant Coursework:** Deep Learning for Computer Vision, ML, Adv. AI, Self-Driving Cars, Adv. Data Mining
- **Teaching Experience:** Grader (Deep Learning). **Honors:** Eta Kappa Nu

University of Michigan (College of Literature, Science and Arts)

Ann Arbor, MI

Bachelor of Science, Economics, Magna Cum Laude

Sep 2011 – May 2015

Minors in Computer Science and Mathematics

- **GPA:** 3.95 / 4.00
- **Honors:** James B. Angell Scholar (seven out of eight semesters with all A's), William J. Branstrom Prize, Phi Kappa Phi Honors Society, NSF SIREU Award, University Honors, 23.5 credit hours of A+
- **Relevant Coursework:** AI, Linear Algebra, Numerical Methods, Econometrics, Real Analysis

EXPERIENCE

Fouhey AI Lab (FAIL), University of Michigan

Ann Arbor, MI

Graduate Research Assistant, Prof. David Fouhey

May 2019 – Present

- Creating more robust 3D human pose representation in video for contact and activity recognition

Princeton Vision and Learning Lab (Formerly Michigan Vision and Learning Lab)

Ann Arbor, MI

Graduate Research Assistant, Alejandro Newell and Prof. Jia Deng

May 2018 – May 2019

- 2D Single Person Human Pose Estimation
 - Improved *Stacked Hourglass* score from 90.9% to 91.3% on *MPII* using better regularization
 - Used simple bottleneck-to-attention mechanism with regularization to improve 2HG performance 0.7%
 - Increased precision of network confidence, explored utilizing for curriculum sampling of tail cases
- Meta-Learning
 - Enhanced fine-tune model on *Meta-Dataset* to within 0.1 *avg. rank* of meta-learning-based benchmark

Strategic Reasoning Group, University of Michigan

Ann Arbor, MI

Undergraduate Research Assistant, Erik Brinkman and Prof. Michael Wellman

May 2013 – July 2013

- Programmed high-frequency trading simulation of autonomous agents, advocating for call market

Citadel LLC

New York, NY

Trader, Global Fixed Income (Core Team)

Apr 2017 – Oct 2017

- Assisted Portfolio Manager and Head of Fund in executing trades, managing risk, and generating trade ideas
 - Built various screeners and monitors using pandas to pitch linear relative value trades in G10 rates
 - Led research for and managed regression-based statistical arbitrage trading strategy
- Designed and implemented tools to better construct and manage PM and Head of Fund's portfolio
 - Constructed custom clustering algorithm using proprietary software to view trades in an elegant manner

BNP Paribas

New York, NY

Interest Rates and FX Structuring Analyst (formerly Intern)

Jul 2015 – Mar 2017, Jun 2014 – Aug 2014

- Priced, Modeled and Executed Exotic and Bespoke Products
 - Created pricing models and back-tested performance of bespoke structures using Python
- Created and Analyzed Systematic Hedging Strategies and Trade Ideas
 - Engineered framework to measure risk on a portfolio basis and evaluate hedging strategies using multiple factors, used this to help redesign hedging program of a top 10 company by market cap

ADDITIONAL

Technical Skills: Python (pytorch, tensorflow, sklearn, pandas), R, MATLAB, C++

Other Interests: Golf: made an albatross (double eagle), holing a 175-yard second shot on a par five

Travel: studied abroad at Bocconi University in Italy, visited 14 countries on four continents in 2015-2019