NATALIA CHEN

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EDUCATION

Stanford University
MS in Design — *September 2023 - Present*

Focus Area: Physical Form and Manufacturing

Princeton University
BSE in Electrical Engineering (Data and Information) — *June 2018*

Certificates (Minors): Statistics and Machine Learning, Engineering and Management Systems, Applications of Computing, Robotics and Intelligent Systems.

EXPERIENCE

Peloton Interactive
Senior Machine Learning Engineer, Personalization — *August 2022 - August 2023*

· Developing and deploying workout class recommendation systems for Peloton digital platforms and row ranking methods for member homescreens.

Engineering Manager, Data Operations — *November 2020 - August 2022*

· Founder and growth driver of the Peloton Data Operations team (3 full time employees, 15 full time contractors) developing data collection protocols, leading cross-functional initiatives, and mentoring team members.

· Created the industry's first proprietary computer vision fitness dataset with over 30k labelled data points and a scalable naming ontology for over 400+ exercises and 1500+ body formations.

Machine Learning Engineer — *March 2019 - November 2020*

· Founded the Peloton AI/CV team and engineered patented features for proof-of-concept iterations of Peloton Guide.

· Sole Machine Learning Engineer on multiple product workstreams supporting novel computer vision applications to improve product offerings - initiating internal data collection and data cleanup efforts to support development.

RELX Group
Analyst, Office of the Chairman, Elsevier — *July 2018 - March 2019*

· Led major strategic, government policy-based, and business-critical projects in the Chairman's North America, China and S/SE Asia portfolios while authoring high impact speeches and presentation materials.

PUBLICATIONS

Natalia Chen, Oinam Nganba Meetei, Nilothpal Talukder, and Alexey Zankevich. 2023. Leveling Up the Peloton Homescreen: A System and Algorithm for Dynamic Row Ranking. In *Seventeenth ACM Conference on Recommender Systems (RecSys '23), September 18–22, 2023, Singapore, Singapore*. ACM, New York, NY, USA, 5 pages. https://doi.org/10.1145/3604915.3610247

AWARDS

International Mathematical Olympiad Bronze medal (top 15 female participants), Australian Mathematics Olympiad Silver medal, Asia Pacific Mathematics Olympiad Bronze medal, British Mathematical Olympiad Gold medal

OTHER ACTIVITIES

Princeton Terrace Club Graduate Board Member (Board Secretary 2019-22), Princeton Alumni School Committee (ASC) Interviewer.