Website: penfever.github.io

Benjamin Feuer

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Education

New York University New York, NY
M.S., Ph.D. candidate in Computer Science, expected graduation Spring 2025. 2021–Present

– Advised by Chinmay Hegde.

Columbia University New York, NY
M.F.A. in Screenwriting 2008–2012

Wesleyan University Middletown, CT
B.A. in Film History 2002–2006

Selected Works

- B Feuer, Y Liu, C Hegde, J Freire. ArcheType: A Novel Framework for Open-Source Column Type Annotation using Large Language Models. *VLDB, 2024*

- B Feuer, A Joshi, M Pham, C Hegde. Distributionally Robust Classification on a Data Budget. *Transactions in Machine Learning Research, 2023*

- D McElfresh, S Khandagale, J Valverde, V Prasad C, B Feuer, C Hegde, G Ramakrishnan, M Goldblum, C White. When Do Neural Nets Outperform Boosted Trees on Tabular Data? *NeurIPS, 2023*

More Publications

- B Feuer, R T Schirrmeister, V Cherepanova, C Hegde, F Hutter, M Goldblum, N Cohen, C White. TuneTables: Context Optimization for Scalable Prior-Data Fitted Networks. *Under Review, 2024*

- B Feuer, A Joshi, M Cho, K Jani, S Chiranjeevi, ZK Deng, A Balu, A K Singh, S Sarkar, N Merchant, A Singh, B Ganapathysubramanian, C Hegde. Zero-Shot Insect Detection via Weak Language Supervision, *The Plant Phenome Journal (2024), AAAI Workshop on AI for Agriculture and Food Sciences (AIAFS), 2023 (Oral)*

- B Feuer, A Joshi, C Hegde. A Meta-Analysis of Distributionally Robust Models. *ICML Principles of Distribution Shift Workshop, 2022*

- B Feuer, N Cohen, C Hegde. Scaling TabPFN: Sketching and Feature Selection for tabular prior-data fitted networks. *NeurIPS Table Representation Learning Workshop, 2023*

- B Feuer, C Hegde. Exploring Dataset-Scale Indicators of Data Quality. *NeurIPS ATTRIB Workshop, 2023*

- A Nakkab, B Feuer, C Hegde. LiT-Tuned Models for Efficient Species Detection, *AAAI Workshop on AI for Agriculture and Food Sciences (AIAFS), 2023 (Oral)*

- P Prescod, B Feuer, A Hladkyi, S Paulk, A Prasad. Auto-Markup Benchmark: Towards an Industry-Standard Benchmark for Evaluating Automatic Document Markup. *Balisage 2023*

Awards and Honors

The Deborah M. Rosenthal Award (Best CS Qualifying Exam), New York University	2024
SOE Scholarship, Summer Scholars, New York University	2021
1st prize (12,000+ submissions), Shore Scripts	2019
1st Prize (10,000+ submissions), Script Pipeline	2019
Faculty Honors, Columbia University	2012
Invitee, Telluride Student Symposium	2010
Merit Scholar, Columbia University	2008
Cum Laude, Wesleyan University	2006
Honors Thesis, Wesleyan University	2006

Teaching

- **Recitation Leader** at New York University

    Discrete Mathematics   Fall 2021, Spring 2022
    - Lead lectures for groups of 20-25 students, prepared and distributed course materials, graded homework and exams
    Number Theory   Spring 2022
- **Adjunct Faculty** at Ramapo College

    World Cinema Analysis   Fall 2018 - Spring 2021
    - Created syllabus, taught undergraduates, judged student film competitions, career and academic advising
- **Adjunct Faculty** at Montclair State University

    Screenwriting   Fall 2019 – Spring 2021
    - Created syllabus, taught undergraduates
- **Adjunct Faculty** at Curry College

    Comedy Writing   Fall 2013 – Spring 2014
    - Created syllabus, taught undergraduates, advised on student films
- **Preceptor** at Columbia University

    American Film History, Screenwriting   Spring 2011 – Fall 2011
    - Created syllabus, taught undergraduates, lead discussion sections

Service

Reviewing
ICLR (DMLR Workshop)): 2024
Outreach
College Preparatory and Readiness at EssayBusters   Summer 2017
    - Advised prospective college applicants from underrepresented communities on the admissions process

Instructor at DCTV-New York Summer 2009

– Taught filmmaking to students from underserved neighborhoods as part of a local enrichment program

Professional Experience

Covalent San Francisco, CA
Research Intern Summer 2021

– Y-Combinator & Wharton startup focused on group matching, similar to Lunchclub

– Designed and implemented core app functionality for group and individual matching using a game-theoretic Gale-Shapley algorithm

Arizona State University Tempe, AZ
Research Consultant Summer 2020

– Implemented an algorithm to compute the NDVI index of seedlings based on infrared imagery captured from a Raspberry Pi
– Project was awarded an $1.6 Mn SBIR grant from the Dept. of Energy in 2021

Filmmaker Los Angeles, CA and New York, NY
Independent Filmmaker Spring 2012-Spring 2021

– Fundraised, directed, produced and marketed 1 feature and 4 short films budgeted up to $1 Mn USD
– Hired and managed hundreds of contract employees.
– Oversaw intl. sale and distribution deals with 1091 Pictures, Shorts.TV
– Co-created 100+ hours of visual and written content for Amazon Prime, YouTube, Disney, HBO, and wide-release theatrical exhibition, featuring Helen Mirren, Zachary Quinto, Dennis Quaid, Julia Roberts, Lucas Hedges, Gabrielle Union and Bill Irwin.
– Film festivals include Clermont-Ferrand, Telluride, Berlin Independent Film Festival, and Outfest