Junyu Chen

4211 Wegmans Hall, University of Rochester, Rochester, NY 14627

jchen175@ur.rochester.edu | +1 (585) 748-7955 | jchen175.github.io | junyuchen311 | jchen175 | Google Scholar

Education

University of Rochester — *Rochester, NY*
Ph.D. in Computer Science — *Aug 2023 – Present*
- Advisor: **Prof. Christopher Kanan** | GPA: 4.00/4.00

University of Rochester — M.S. in Data Science — *Aug 2021 – Dec 2022*
- Advisor: **Prof. Jiebo Luo** | GPA: 4.00/4.00

Peking University — B.S. in Psychology; B.A. in Economics — *Aug 2016 – Jun 2020*

Research Interest

My current research focuses on computer vision and machine learning, particularly self-supervised and continual learning for discovering semantic structure in large-scale visual data.

Publications

1. **Junyu Chen**, Md Yousuf Harun, Christopher Kanan. "Unlocking ImageNet's Multi-Object Nature: Automated Large-Scale Multilabel Annotation." *in **CVPR Findings***, 2026. [pdf] [code]
2. Ziyun Zeng, **Junyu Chen**, Noha Rashwan, Nisreen Al Jallad, Jin Xiao, Jiebo Luo. "Automated Detection and Quantitative Assessment of Dental Plaque in Intraoral Images." *ACM Transactions on Computing for Healthcare (**HEALTH**)*, 2026. [pdf]
3. Wenbo Zhang, **Junyu Chen**, Christopher Kanan. "INSIGHT: Explainable Weakly-Supervised Medical Image Analysis." *in Machine Learning for Healthcare (**MLHC**)*, 2025. [pdf] [code]
4. **Junyu Chen**, Jie An, Hanjia Lyu, Christopher Kanan, Jiebo Luo. "Learning to evaluate the artness of AI-generated images." *IEEE Transactions on Multimedia (**TMM**)*, 2024. [pdf] [code]
5. **Junyu Chen**, Jie An, Hanjia Lyu, Christopher Kanan, Jiebo Luo. "Holistic visual-textual sentiment analysis with prior models." *in IEEE International Conference on Multimedia Information Processing and Retrieval (**MIPR**)*, 2024. [pdf]
6. Md Yousuf Harun, Jhair Gallardo, **Junyu Chen**, Christopher Kanan. "Grasp: A rehearsal policy for efficient online continual learning." *in Conference on Lifelong Learning Agents (**CoLLAs**)*, 2024. [pdf] [code]
7. Jian Lu, Shikhar Srivastava, **Junyu Chen**, Robik Shrestha, Manoj Acharya, Kushal Kafle, Christopher Kanan. "Revisiting Multi-Modal LLM Evaluation." *in CVPR Workshop on Benchmarking and Expanding AI Multimodal Approaches (**BEAM**)*, 2024. [pdf] [code]
8. Jingyang Lin, **Junyu Chen**, Hanjia Lyu, et al. "Predicting Adverse Neonatal Outcomes for Preterm Neonates with Multi-Task Learning." *in IEEE International Conference on Digital Health (**ICDH**)*, 2023. [pdf]

Industry Experience

Kuaishou Technology Co., Ltd. — *Beijing, China*
Data Analyst Intern — *Sept 2020 – Apr 2021*
- Built predictive models (XGBoost, LSTM) and A/B testing pipelines to analyze user retention and seller growth, increasing GMV by 3% and seller growth by 20%.

DiDi Infinity Technology and Development Co., Ltd. — *Beijing, China*
Data Analyst Intern — *Nov 2019 – Apr 2020*
- Developed SQL analytics pipelines and applied text mining to analyze driver and passenger behavior, improving query efficiency and informing product decisions.

Xiaomi Communications Co., Ltd. — *Beijing, China*
Product Manager Intern — *Mar 2018 – Mar 2019*
- Analyzed sales data across 20+ product categories and automated reporting pipelines to support product planning and marketing strategy.

Technical Skills

Programming Python, MATLAB, C/C++, SQL, R; Latex, Web
Tools PyTorch, TensorFlow, Git

Service & Honors

Service: ***Reviewer*** for CVPR, NeurIPS, CoLLAs, MLHC, and IEEE MultiMedia; ***PhD Admissions Committee Member***, Computer Science Department, University of Rochester (2024–2026).
Teaching: ***Instructor***, Python 101 (NSF REU Program), University of Rochester, Summer 2023; ***Teaching Assistant***, CSC 477 End-to-End Deep Learning (Fall 2023, 2024), CSC 261 Database Systems (Spring 2024), CSC 440 Data Mining (Fall 2022).
Honors: Peking University Scholarship (2020, Top 15%); Zhang Wenjin Scholarship (2017, Top 5%); Merit Student (2016, Top 5%).