Kevin W. Jin

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SUMMARY

Computational scientist with expertise in NLP and healthcare AI seeking to apply data-driven problem solving and cross-functional communication skills in industry.

EDUCATION

Yale University 2023 – Present
Doctor of Philosophy in Computational Biology and Biomedical Informatics New Haven, CT

- **Awards**: NSF Graduate Research Fellowship (five-year federal grant worth $159,000; ∼12% funding rate)

Johns Hopkins University 2016 – 2020
Bachelor of Science in Molecular and Cellular Biology Baltimore, MD

- **Activities**: Japanese American Student Association (Secretary, then Vice President), Quiz Bowl Team (Secretary)

EXPERIENCE

Yale School of Medicine Aug. 2023 – Present
Graduate Researcher, Clinical NLP Lab New Haven, CT

- Develop NLP pipeline combining fine-tuned LLMs and retrieval-augmented generation for **psychiatric treatment recommendation** from 100,000+ patient records
- Led 21 co-authors in a **mixed-methods systematic evaluation** of psychiatric clinical reasoning quality in four frontier LLMs; manuscript under peer review

Yale University Poorvu Center for Teaching and Learning Aug. 2025 – Present
Graduate Writing Lab Fellow New Haven, CT

- Consult 1-1 with graduate researchers across scientific disciplines on **structuring arguments and communicating complex findings to diverse audiences** (e.g., dissertations, publications, grants); serving the 7500+ graduate students at Yale

Alexion, AstraZeneca Rare Disease June 2025 – Aug. 2025
Medical Writing Operations Intern New Haven, CT

- Built a **GraphRAG knowledge base** to steer writing style of LLM-authored clinical study reports of an investigational drug for submission to regulatory agencies, in partnership with Graphlit and InteliNotion; work adopted and continued by team
- Advised model selection and **iteratively designed 10+ production-grade LLM prompts** generating corresponding sections of a clinical study report, in partnership with InteliNotion

SELECTED PUBLICATIONS AND PRESENTATIONS

- Jin, K.W., et al. "Diagnostic Accuracy and Clinical Reasoning of Multiple Large Language Models in Psychiatry". *medRxiv* (2026).
- *Beyond the Algorithm: A Human-Centered Approach to AI in OCD Treatment* (2025). Invited speaker on AI ethics in psychiatric practice at an International OCD Foundation continuing medical education conference.

SKILLS AND INTERESTS

Interests: Healthcare AI; wearable devices; global affairs; military history
Technical: Python; R; SQL; Git; LaTeX; HPC
Languages: Mandarin Chinese (fluent); Japanese (conversational)