Stanford



Jonathan H. Chen, MD, PhD

Associate Professor of Medicine (Computational Medicine) and of Biomedical Data Science

CLINICAL OFFICE (PRIMARY)

- **Hospitalist for Stanford Medical Center**

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Bio

BIO

Jonathan H. Chen MD, PhD leads a research group to empower individuals with the collective experience of the many, combining human and artificial intelligence approaches to deliver better care than either alone. Dr. Chen continues to practice medicine for the concrete rewards of caring for real people and to inspire this research focused on discovering and distributing the latent knowledge embedded in clinical data.

Before his medical training, Chen co-founded a company to translate his Computer Science graduate work into an expert system for organic chemistry, with applications from drug discovery to an education tool for students around the world. His expertise is regularly featured in popular press outlets with over 100 publications in leading clinical and informatics venues and awards from the NIH, National Library of Medicine, American Medical Informatics Association, International Brotherhood of Magicians and more.

In the face of ever escalating complexity in medicine, informatics solutions are the only credible approach to systematically address challenges in healthcare. Tapping into real-world clinical data like electronic medical records with machine learning and data analytics will reveal the community's latent knowledge in a reproducible form. By delivering this back to clinicians, patients, and healthcare systems as clinical decision support, he aims to uniquely close the loop on a continuously learning health system.

Refer to Dr. Chen's web-page for additional in-depth bio information, publication lists, CV, etc.

http://web.stanford.edu/~jonc101

CURRENT ROLE AT STANFORD

Director for Medical Education in Artificial Intelligence

Stanford Center for Biomedical Informatics Research

+ Division of Hospital Medicine

+ Clinical Excellence Research Center

+ Biomedical Data Science

+ ARiSE Healthcare Network Founding Site Lead

CLINICAL FOCUS

- Internal Medicine

ACADEMIC APPOINTMENTS

- Associate Prof-Univ Med Line, Computational Medicine
- Associate Prof-Univ Med Line, Department of Biomedical Data Science
- Member, Bio-X
- Faculty Affiliate, Institute for Human-Centered Artificial Intelligence (HAI)
- Member, Maternal & Child Health Research Institute (MCHRI)

PROFESSIONAL EDUCATION

- Board Certification: Internal Medicine, American Board of Internal Medicine (2025)
- Board Certification: Clinical Informatics, American Board of Preventive Medicine (2017)
- Fellowship: Palo Alto VA Healthcare System (2015) CA
- Residency: Stanford University Hospital (2014)
- Medical Education: University of California, Irvine (2011) CA

LINKS

- Research Group Site: http://web.stanford.edu/~jonc101
- Publications: http://healthrexlab.com/publications-2/
- Curriculum Vitae (CV): https://docs.google.com/document/d/15J_7SvDh8auhzdkbDkVZVQ-ypFg3AxfLQFNLL1r1qAI/edit?usp=sharing

Research & Scholarship

CURRENT RESEARCH AND SCHOLARLY INTERESTS

In the face of ever escalating complexity in medicine, integrating informatics solutions is the only credible approach to systematically address challenges in healthcare. Tapping into real-world clinical data streams like electronic medical records with machine learning and data analytics will reveal the community's latent knowledge in a reproducible form. Delivering this back to clinicians, patients, and healthcare systems as clinical decision support will uniquely close the loop on a continuously learning health system. Our group seeks to empower individuals with the collective experience of the many, combining human and artificial intelligence approaches to medicine that will deliver better care than what either can do alone.

HealthRexLab.com

Teaching

COURSES

2024-25

- Clinical Experience Seminar for Students in Biomedical Data Science: BIOMEDIN 304 (Sum)
- Precision Practice with Big Data: BIOMEDIN 205 (Aut)

STANFORD ADVISEES

Med Scholar Project Advisor

Selin Everett, Ivan Lopez

Postdoctoral Faculty Sponsor

Ruoqi Liu, Fateme Nateghi Haredasht

Doctoral Dissertation Co-Advisor (NonAC)

Bryan Bunning, Yixing Jiang, Marvin Li, Ivan Lopez, Selina Pi

Master's Program Advisor

Ryan Chan, Anna Chukaeva

Doctoral Dissertation Reader (NonAC)

Suhana Bedi, Timothy Keyes

Doctoral (Program)

Jake Silberg