Stanford



Narges Baniasadi

Adjunct Professor Bioengineering

Bio

BIO

Dr. Narges Baniasadi is founder and executive director of Emergence program at Stanford. She is also Adjunct Professor with the BioEngineering department where she teaches purposeful entrepreneurship in the areas related to Health Equity and Sustainability. Narges has led multiple initiatives and businesses in the intersection of Technology and Life Sciences for more than a decade. She founded Bina, a pioneering Bioinformatics company, out of a decade of research at Stanford and UC Berkeley. Bina developed high performance computing platforms and AI solutions for cancer research and genomics analysis. Later, upon acquisition of Bina by Roche, she led the clinical software development and AI research as VP of Informatics at Roche Sequencing until 2018.

ACADEMIC APPOINTMENTS

• Adjunct Professor, Bioengineering

ADMINISTRATIVE APPOINTMENTS

• Founder and Executive Director, Emergence, (2020- present)

BOARDS, ADVISORY COMMITTEES, PROFESSIONAL ORGANIZATIONS

- Advisory Board, Ethics, Society, and Technology Hub at Stanford (2021 present)
- Leadership Council, Advisor on Digital Health Innovation, Advisor on Health Equity, Byers Center for Biodesign (2022 present)
- Global Health Faculty Fellow, Center for Innovation in Global Health (CIGH) (2022 present)

Teaching

COURSES

2023-24

• Biodesign and Entrepreneurship for Societal Health: BIOE 375 (Win)

2022-23

• Biodesign and Entrepreneurship for Societal Health: BIOE 375, MED 236 (Spr)

2021-22

• Biodesign and Entrepreneurship for Societal Health: BIOE 375 (Spr)

2020-21

• Innovate for Planet Health: Entrepreneurial Opportunities for Planet and Societal Health Challenges: BIOE 394 (Spr)

Publications

PUBLICATIONS

- Gaining comprehensive biological insight into the transcriptome by performing a broad-spectrum RNA-seq analysis *NATURE COMMUNICATIONS* Sahraeian, S., Mohiyuddin, M., Sebra, R., Tilgner, H., Afshar, P. T., Au, K., Asadi, N., Gerstein, M. B., Wong, W., Snyder, M. P., Schadt, E., Lam, H. K. 2017; 8: 59
- MetaSV: an accurate and integrative structural-variant caller for next generation sequencing *BIOINFORMATICS* Mohiyuddin, M., Mu, J. C., Li, J., Asadi, N. B., Gerstein, M. B., Abyzov, A., Wong, W. H., Lam, H. Y. 2015; 31 (16): 2741-2744
- VarSim: a high-fidelity simulation and validation framework for high-throughput genome sequencing with cancer applications *BIOINFORMATICS* Mu, J. C., Mohiyuddin, M., Li, J., Asadi, N. B., Gerstein, M. B., Abyzov, A., Wong, W. H., Lam, H. Y. 2015; 31 (9): 1469-1471
- Leveraging long read sequencing from a single individual to provide a comprehensive resource for benchmarking variant calling methods. Scientific reports

Mu, J. C., Tootoonchi Afshar, P., Mohiyuddin, M., Chen, X., Li, J., Bani Asadi, N., Gerstein, M. B., Wong, W. H., Lam, H. Y. 2015; 5: 14493-?

• Leveraging long read sequencing from a single individual to provide a comprehensive resource for benchmarking variant calling methods. Scientific reports

Mu, J. C., Tootoonchi Afshar, P., Mohiyuddin, M., Chen, X., Li, J., Bani Asadi, N., Gerstein, M. B., Wong, W. H., Lam, H. Y. 2015; 5: 14493-?

• Fast and accurate read alignment for resequencing *BIOINFORMATICS* Mu, J. C., Jiang, H., Kiani, A., Mohiyuddin, M., Asadi, N. B., Wong, W. H. 2012; 28 (18): 2366-2373