Saurin Bipin Parikh

+1 (412) 499-2194 | saurinbp@gmail.com | sauriiiin.github.io | GitHub | LinkedIn | Publications

Summary

Physician-engineer-scientist and technology transfer specialist with expertise in evaluating, protecting, and licensing intellectual property in the fields of digital health, AI/ML, medical devices, and gene therapy. Proven bridge between clinicians, researchers, investors and industry.

Education

University of Pittsburgh School of Medicine — *Pittsburgh, PA, USA*
PhD in Integrative Systems Biology — *August 2018 – November 2023*

University of Pittsburgh Swanson School of Engineering — *Pittsburgh, PA, USA*
MS in Bioengineering — *August 2016 – April 2018*

Gujarat University — *Ahmedabad, Gujarat, India*
MBBS [MD equivalent] — *July 2008 – June 2014*

Experience

UR Ventures
University of Rochester — *Rochester, NY, USA*
Sr. Technology Licensing Specialist — *February 2024 – Present*

- Manage a 300-plus-asset portfolio spanning digital health, medical devices, algorithms, small molecules, gene therapy and educational technologies.
- Evaluated 50+ invention disclosures in AY 2024-25 and issued decisive go/no-go recommendations that shaped patent-filing and marketing strategy.
- Created non-confidential summaries and executed targeted outreach—both active and passive—securing 10+ Confidential Disclosure Agreements (CDAs) with prospective licensees in AY 2024-25, thereby accelerating due-diligence timelines.
- Oversaw 500+ active U.S. and international patent applications and shepherded 80+ new filings during AY 2024-25.
- Drafted and negotiated 40+ agreements—including exclusive and non-exclusive licenses, copyright licenses, CDAs, viewing agreements and option agreements—within AY 2024-25.
- Strengthened the university's financial position and commercialization flexibility across multiple license agreements.
- Provided expert analysis on IP position, commercial potential, path-to-market and competitive landscape for university's commercialization gap-fund applications.
- Co-led a university-wide networking event that attracted faculty from ~30 departments and stimulated cross-disciplinary collaboration.
- Delivered faculty-meeting presentations and developed micro-learning material to bolster campus-wide awareness of innovation and entrepreneurship.
- Developed a searchable, faculty-focus portal that streamlines internal collaboration and inbound licensing interest.
- Built an award-tracking analytics platform that simplifies real-time internal reporting and drives data-driven faculty outreach.

Carvunis Lab, Department of Computational & Systems Biology
University of Pittsburgh, School of Medicine — *Pittsburgh, PA, USA*
Graduate Student Researcher — *August 2017 – December 2023*

- Studied the birth of new genes in our genome and its impact on existing cellular systems. Built new experimental and computational pipelines [PDF, GitHub], discovered a new enzyme [PDF], characterized novel genetic elements using multi-omics approach [PDF].

Coulter Translational Research Partners II Program
University of Pittsburgh, Swanson School of Engineering *Pittsburgh, PA, USA*
Technology Fellow *January 2017 – June 2017*

- Performed stakeholder discovery, intellectual property analysis, reimbursement strategy analysis, clinical trial design and business plan development for projects undertaken by bioengineers and clinical faculty within the University of Pittsburgh.

Parth Hospital *Ahmedabad, Gujarat, India*
Junior Surgeon *January 2015 – June 2016*

- Responsible for all stages of patient care and counselling. Independently performed minor surgeries and procedures.

Skills

Subject Expertise	Human health, machine learning, artificial intelligence, biostatistics, bioinformatics, medical product development, gene therapy
Intellectual Property & Licensing	Patent strategy, technology evaluation, licensing negotiation, contracts, industry partnerships
Business Development & Market Analysis	Technology valuation, competitive landscape analysis, business model development, go-to-market strategy, market research and customer discovery
Regulatory & Funding	FDA regulatory pathways, reimbursement strategy, SBIR/STTR grant writing
Technical Toolkit	Inteum, PatSnap, GlobalData, Inpart, FirstIgnite

Publications

Houghton, C. J., Coelho, N. C., Chiang, A., Hedayati, S., **Parikh, S. B.**, Ozbaki-Yagan, N., Wacholder, A., Iannotta, J., Berger, A., Wohlever, M. L., Carvunis, A. R., & O'Donnell, A. F. (2025). De novo proteins integrate cellular systems using ancient protein targeting and degradation pathways. bioRxiv : the preprint server for biology, 2024.08.28.610198. https://doi.org/10.1101/2024.08.28.610198

Wacholder, A., **Parikh, S. B.**, Coelho, N. C., Acar, O., Houghton, C., Chou, L., & Carvunis, A.-R. (2023). A vast evolutionarily transient translatome contributes to phenotype and fitness. *Cell Systems*, *14*(5), 363–381.e8. https://doi.org/10.1016/j.cels.2023.04.002

Parikh, S. B.*, Van Oss, S. B.*, Castilho Coelho, N.*, Wacholder, A., Belashov, I., Zdancewicz, S., Michaca, M., Xu, J., Kang,Y. P., Ward, N. P., Yoon, S. J., McCourt, K. M., McKee, J., Ideker, T., VanDemark, A. P., DeNicola, G. M., & Carvunis, A.-R. (2022). On the illusion of auxotrophy: met15Δ yeast cells can grow on inorganic sulfur thanks to the previously uncharacterized homocysteine synthase Yll058w. Journal of Biological Chemistry, 298(12), 102697. https://doi.org/10.1016/j.jbc.2022.102697
*these authors contributed equally

Parikh, S. B., Houghton, C., Van Oss, S. B., Wacholder, A., & Carvunis, A.-R. (2022). Origins, evolution, and physiological implications of de novo genes in yeast. Yeast, 39(9), 471–481. https://doi.org/10.1002/yea.3810

Parikh, S. B., Castilho Coelho, N., & Carvunis, A.-R. (2021). LI Detector: a framework for sensitive colony-based screens regardless of the distribution of fitness effects. G3, 11(2). https://doi.org/10.1093/g3journal/jkaa068

Vakirlis, N., Acar, O., Hsu, B., Castilho Coelho, N., Van Oss, S. B., Wacholder, A., Medetgul-Ernar, K., Bowman, R. W., 2nd, Hines, C. P., Iannotta, J., **Parikh, S. B.**, McLysaght, A., Camacho, C. J., O'Donnell, A. F., Ideker, T., & Carvunis, A.-R. (2020). De novo emergence of adaptive membrane proteins from thymine-rich genomic sequences. Nature Communications, 11(1), 781. https://doi.org/10.1038/s41467-020-14500-z

Widdowson, C., Ganhotra, J., Faizal, M., Wilko, M., **Parikh, S.**, Adhami, Z., & Hernandez, M. E. (2016). Virtual reality applications in assessing the effect of anxiety on sensorimotor integration in human postural control. 2016 38th Annual International Conference of the IEEE Engineering in Medicine and Biology Society (EMBC), 33–36. https://doi.org/10.1109/EMBC.2016.7590633

Additional Information

Licenses and Certifications

Medical License and Registration — *June 2014 – Present*
Registration No. G-52091, Gujarat Medical Council, India

Awards

- Travel Award, Biomedical Graduate Student Association (BGSA), University of Pittsburgh — *September 2019*
- Randall Family Big Idea Competition – Third Place, Innovation Institute, University of Pittsburgh — *March 2017*
- StartUp Blitz – Finalist, Innovation Institute, University of Pittsburgh — *January 2017*

Committee Involvement

- Integrative Systems Biology (ISB) Program Admissions Committee — *August 2020 – April 2021*
- Integrative Systems Biology (ISB) Program Representative at Biomedical Graduate Student Association (BGSA) — *August 2019 – July 2020*