WILSON SONSINI

Dawson Wong

ASSOCIATE

Patents and Innovations

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FOCUS AREAS

Artificial Intelligence and Machine Learning

Intellectual Property

Life Sciences

Patents and Innovations

EXPERIENCE

Dr. Dawson Wong is an associate in the Washington, D.C., office of Wilson Sonsini Goodrich & Rosati, where he is a member of the patents and innovations practice. His practice focuses on patent prosecution and counseling matters across multidisciplinary fields, including precision medicine, molecular diagnostics, bioinformatics, machine learning, medical devices, and medical imaging.

Prior to joining the firm, Dawson completed his doctoral degree in electrical engineering at Stanford University. His Ph.D. dissertation focused on the comprehensive image and transcriptomic analysis of single circulating tumor cells for liquid biopsy of lung cancer.

CREDENTIALS

Education

- J.D., Georgetown University Law Center
- Ph.D., Electrical Engineering, Stanford University
- M.S., Electrical Engineering, Stanford University
- B.S., Computer Engineering, University of Illinois at Urbana-Champaign
- B.S., Mathematics, University of Illinois at Urbana-Champaign

Admissions

- Bar of the District of Columbia
- U.S. Patent and Trademark Office

INSIGHTS

Select Publications

- Co-author, "Flow Homogenization Enables a Massively Parallel Fluidic Design for High-throughput and Multiplexed Cell Isolation," *Advanced Materials Technologies*, 2020
- Co-author, "High-throughput full-length single-cell mRNA-seq of rare cells," *PLoS ONE*, 2017
- Co-author, "Capture and Genetic Analysis of Circulating Tumor Cells Using a Magnetic Separation Device (Magnetic Sifter)," 1634 *Circulating Tumor Cells, Methods in Molecular Biology* 153-162, 2017
- Co-author, "Multigene profiling of single circulating tumor cells," *Molecular & Cellular Oncology*, 2017
- Co-author, "Molecular profiling of single circulating tumor cells from lung cancer patients," *Proceedings of the National Academy of Sciences*, 2016
- Co-author, "Isolation and mutational analysis of circulating tumor cells from lung cancer patients with magnetic sifters and biochips," 14(1) *Lab on a Chip* 78-88, 2014

PATENTS

SELECT PATENTS:

- Co-inventor, "Molecular analysis using a magnetic sifter and nanowell system," U.S. Patent No. 10,167,515, 2019