

Pardeep Singh

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Education

United Nations Institute of Training and Research

Professional Certificate: Science and Technology Policy

Geneva, Switzerland

Columbia University/CUNY

Master of Science (MSc): Mechanisms of Microglia in Alzheimer's Disease

New York, New York

Binghamton University

Bachelor of Science (BSc)

Vestal, New York

Notable Projects

New York State Quantum Technology Hubs

Sep 2024 - Sep 2026

- Led the drafting and launch of New York State's quantum technology program and quantum strategy
- Secured \$360 million for New York State's first advanced quantum commercialization hubs

US and UK AI Safety Memorandum of Understanding

Apr 2024 - May 2024

- Convened AI Safety leadership across southern California to exchange best practices with UK counterparts
- Delivered high-level strategic dialog between US/UK AI Safety Institutes to broker cooperation on AI Safety

NASA, Arizona and UK Space Agency Space Bilateral Cooperation

May 2023 - Jan 2024

- Delivered Special NASA Delegation to the UK to Foster Alignment of US/UK Space Policy Goals
- Facilitated Scientific Cooperation in Areas Related to Quantum and AI, resulting in \$1.5 million in awards

UK and Utah Trade and Economic Cooperation Memorandum of Understanding

Jul 2022 - Jun 2023

- Brokered Utah/UK Science and Technology Cooperation Related to Life Sciences and Aerospace
- Negotiated with Utah State Officials to Deliver Mutual Economic Agreements

EXPERIENCE

New York State -Office of Governor Kathy Hochul

Sep 2024 - Present

Empire State Fellow- Emerging Technologies

Albany, NY

- Spear-headed state-wide quantum technology ecosystem mapping. Coordinated across academia, industry and government to assess research trends and quantum use cases in NY. Led the drafting and release of New York's first quantum strategy and \$360m quantum hubs program
- Delivered state-wide AI adoption pilot program with 1,200 staff resulting in a nearly 70% adoption of AI tools by state workers. Published New York State's first AI Acceptable Use Policy, establishing responsible AI governance practices for state employees
- Led strategy formulation and capacity building for policy making in areas such as AI, Quantum, and Emerging Technology. Facilitated in-person lab and tech demonstrations for state leaders resulting in enhanced policy frameworks and informed decision-making
- Ensured cross-government approaches to policy development in education, cybersecurity, and finance by collaborating with agency Deputy/Assistant Commissioners on New York State's quantum technology strategy

British Consulate-General

Jul 2022 - Sep 2024

Head of Science and Innovation within the UK Science and Innovation Network

New York and Los Angeles

- Led the development and coordination of the UK scientific strategy in the Southwest US (CA, NV, AZ, UT, HI), resulting in enhanced collaboration and increased visibility of UK science initiatives
- Facilitated US/UK bilateral cooperation in science, technology, and policy, which strengthened government engagement and influenced policy to support scientific advancement
- Prepared briefings, policy, and talking points for high-level conversations between US and UK officials, enhancing diplomatic relations and ensuring successful visits by UK government ministers and senior officials
- Distilled UK science and innovation policy to US policymakers and other high-level stakeholders at the university, NGO, and state levels, leading to improved understanding and alignment on international science initiatives
- Stimulated access to key opinion leaders and subject matter experts in areas such as Life Science, Energy, Space, A.I, Quantum and Semiconductor Research

New York State Senate

Sep 2021 - Jun 2022

Senate Legislative Fellow with Senator Gustavo Rivera

Albany, New York

- Crafted policy briefs and talking points that effectively communicated stakeholder viewpoints, leading to informed decision-making by lawmakers
- Cultivated relationships with consultants and advocacy groups, resulting in informed bill drafting and enhanced policy analysis
- Provided technical expertise and consulted the Health Committee on science and healthcare topics, contributing to informed policy decisions
- Amended bill language and financials to successfully execute New York State budgetary appropriations, ensuring alignment with policy objectives

New York Biomedical Technician Rapid Response Team

Jan 2020 - Apr 2020

Co-Founder

Brooklyn, New York

- Opened a COVID-19 popup testing lab in the Flatbush area of Brooklyn, increasing community access to testing during the pandemic
- Developed the first saliva-based COVID-19 test in the New York tri-state area, enhancing testing efficiency and comfort for patients
- Led a team of 200+ volunteers to coordinate research operations and conduct testing, ensuring smooth and effective testing processes
- Saved more than \$75,000 in laboratory supplies and equipment costs through in-kind donations.
- Secured CDC testing probes and laboratory reagent to test 25,000 people for free

Astellas Research Institute of America

Sep 2019 - Jul 2021

Research Scientist

San Diego, California

- Engineered a screening platform to identify brain autoantibody (IgA, IgG, IgM) influence in psychiatric disease
- Utilized ELISA and FACs based systems for determine pathogenic autoantibody binding to CNS disease receptors in patient derived blood

Columbia University

Dec 2017 - Dec 2019

Graduate Research Associate with Dr. Karen Duff

New York, New York

- Investigated Apolipoprotein genetic risk factors in mouse and cell models of Alzheimer's disease, contributing to a deeper understanding of genetic influences on disease progression
- Analyzed changes in tau propagation in vitro with modified glia expressing ApoE3 or ApoE4 alleles, enhancing understanding of allele-specific effects on tau dynamics

Skills

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- **Emerging Technology Policy:** Science and Technology Policy Development, Strategic Planning and Stakeholder Management
 - **Science & Innovation Diplomacy:** Technology Partnerships, Negotiation. Government Relations
 - **State Policy & Legislative Strategy:** Legislative Analysis, Bill Drafting, Policy Advocacy and Communications

SELECTED PUBLICATIONS and FEATURES

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- Singh, P. My First Six Weeks of the Pandemic. *Medium*,
https://medium.com/@pradeepsingh_51357/my-first-six-weeks-of-the-pandemic-71acc7b03cd8
 - Horrigan, J. Confronting the pandemic. *DNA Integrated Technologies*,
<https://www.idtdna.com/pages/community/blog/post/confronting-the-pandemic>
 - Annabelle, L. Pardeep Singh dives into giving back with science and policy. *National Science Policy Network*,
<https://scipolnetwork.org/news/320277>.
 - Singh, P., McIntyre, A., O'Connor, S., Scacalossi, K. and Acosta-Ruiz, A. Increasing Use of Genetic Data Requires New Privacy Considerations. *Journal of Science Policy & Governance*, 15(1).
 - Singh, P. Mechanisms of Microglia Mediated Apolipoprotein E Neurotoxicity. *CUNY Academic Works*,
https://academicworks.cuny.edu/cc_etds_theses