

TAREK R. FADEL, PhD

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Summary: Multilingual professional managing a multidisciplinary cancer research center at MIT, with 12 years of experience in science policy, program management, preclinical research, and the high technology industry.

PROFESSIONAL AND LEADERSHIP EXPERIENCE

MIT Science Policy Review Advisory Board, Cambridge, MA

Board Member

Since 2020

- Advises the journal on its editorial direction and coverage of important issues affecting emerging technologies, science policy and advocacy, and global health.
- Participates in the review and editing process to ensure broader access for articles covering complex scientific issues.

Koch Institute for Integrative Cancer Research at MIT, Cambridge, MA

Assistant Director for the Marble Center for Cancer Nanomedicine

Since 2016

- Manages an annual \$1.5M grant mechanism across 6 research labs and over 30 affiliates that funds multidisciplinary projects in cancer detection, treatment, and monitoring.
- Coordinates annual advisory board meetings and donor stewardship efforts, including reporting mechanisms and communication activities that highlight Center achievements, which has recently set the Center on course towards a \$25M endowment.
- Advises on external research collaborations, including partnerships with industry.

Founder and Co-Director, Convergence Scholars Program (CSP)

Since 2017

- Conceptualized, defined and implemented the strategic vision for a development program that helps emerging researchers further their skills and build their brand as scientists.
- Co-manages annual cohorts of scholars (12 postdocs per year) by providing personalized counsel in science communication, management, and leadership, and advises scholars in launching new initiatives (such as the Women in Innovation and Stem Database at MIT) as well as garnering additional fellowships and awards (e.g., L'Oréal, TED, the American Association for Cancer Research, and the National Institutes of Health).
- Initiated new partnerships with the MIT Center for Precision Cancer Medicine, MIT Communications Lab, Harvard Catalyst, Tufts Clinical and Translational Science Institute, Science Story Tellers, industry and the federal government to expand activities offered at CSP.

Graduate School Alumni Association Board, Yale University, New Haven, CT

Board Member

Since 2019

- Advises the Dean and alumni relations staff on how best to engage Yale Graduate School alumni.
- Participates in annual board meetings to support the strategic goals of the Yale Graduate School and enhance its visibility.

International Technology Research Institute, Arlington, VA

Vice-President of Research

2014–2016

- Advised the CEO on expansion of prime government contracts.
- Led research for new product marketing strategies.
- Developed proposals for global technology assessments (raising \$500,000 in federal contracts per project).

National Nanotechnology Coordination Office, Washington D.C.

Staff Scientist

2014–2016

- Served as the Executive Secretary for the Nanoscale Science, Engineering, and Technology Subcommittee to advise and support federal representatives participating in the National Nanotechnology Initiative (NNI), a multibillion-dollar government initiative for the interagency coordination of nanotechnology R&D in the U.S.
- Led a team of 6 staff members to provide administrative and technical support to the office Director.
- Coordinated the support of NNI Grand Challenges, an interagency effort to focus and amplify the impact of federal nanotechnology investments and translational activities.
- Managed the publication of a dozen NNI-wide publications, including the annual Supplement to the President's Budget, programmatic reviews and policy briefings, workshop reports, and public notices.

Policy Analyst

2012–2013

- Managed technical support for cross-agency environmental, health, and safety activities within the coordination office, including a 3-year progress review of federal strategy encompassing more than 20 federal agencies.
- Advised office leadership on key nanotechnology issues impacting the NNI, including inquiries from Congress and reviews by the National Academies of Science and the President's Counselor of Advisor for Science and Technology.

Hewlett-Packard, Corvallis, OR

Product & Systems Engineer

2003–2006

- Led a global engineering team to track and resolve product issues impacting newly manufactured inkjet cartridges.
- Implemented quality control processes for integration of prototype inkjet pens in portable printing platforms.
- Optimized quality and yield for the high-volume (~300K/month) production of inkjet cartridge technologies.

EDUCATION

Yale University, New Haven, CT

Postdoctoral Scholar, Department of Biomedical Engineering

April 2012

- Engineered a composite platform that surpassed clinical standards in cancer immunotherapy for artificial antigen presentation, resulting in 2 patents and 3 first author publications (including a high-impact publication in Nature Nanotechnology).
- Led a global collaboration for testing the safety and efficacy of the aforementioned platform in human-derived T cells, involving the School of Medicine and Departments of Immunology at Yale University and at the University of Copenhagen.

Doctor of Philosophy, Department of Chemical Engineering

May 2011

- As an *Advanced Graduate Leadership Fellow*, completed a cross-training program at the Yale School of Management with courses in accounting, investment analysis, financial reporting, and competitive strategy.
- Recipient of the annual *Harding Bliss Prize* for excellence in engineering.
- Thesis research "Engineering Carbon Nanotubes for Immunotherapeutic Applications" resulted in 4 publications and 2 patents.

Oregon State University, Corvallis, OR

Bachelor of Science Scholar, Department of Chemical Engineering

June 2003

- *Summa Cum Laude* (GPA: 3.91/4.00), minor in Pre-Medical Engineering.

SERVICE AND OUTREACH

Expert Connect, National Science and Technology Medals Foundation, Washington D.C.

Since 2020

Community Member

- Offer insight and mentorship opportunities to students across the country.
- Participate in engagement activities coordinated by the foundation to build inclusive STEM communities across the U.S.

MIT Judo Club, Cambridge, MA

2017-2019

Instructor

- Leads weekly practices for a class of ~20 MIT students and local professionals from the Greater Boston area.
- Crafted a governance structure for the club, including the creation of a charter and nomination of student club officers.

Yale University, New Haven, CT

McDougal Center Fellow

2007–2009

- Coordinated social and cultural activities for students of the Yale Graduate School, including athletic clubs (e.g. Yale Graduate Running and Judo clubs) and large-scale social events (annual graduate student orientation).

Graduate Student Assembly Delegate

2007–2008

- Worked with representatives from the Yale Graduate School to publish a set of best practices for mentoring at Yale.
- Participated in regular meetings to identify critical needs for graduate students.

People of Color Network, Hewlett-Packard, Corvallis, OR

Council Member

2003–2006

- Planned social and cultural events at the Hewlett Packard Corvallis (Oregon) campus.
- Led professional development activities for local student communities, including STEM panels and resume building workshops.