

# Forrest W. Crawford, PhD

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www.crawfordlab.io

## Professional Experience

*Senior Statistician* (2023 – present)

RAND Corporation, Santa Monica, CA

- Led teams working on biosecurity, AI, technology, pandemic prevention.
- Briefed White House, DHS, NIST and other high-level policymakers on emerging biotechnology issues.

*Associate Professor (with tenure), Biostatistics, Statistics & Data Science, Operations Management, Ecology & Evolutionary Biology* (2012 – present; on leave during 2024)

Yale University, New Haven, CT

- Received NIH Director's New Innovator Award (\$1.5MM)
- Built and led a research lab of quantitative scientists working on methodology, modeling, causal inference, with applications in biomedicine, infectious disease epidemiology, public health, social science.
- Published 72+ peer-reviewed articles; H-index 26, 3k+ citations.
- Gave 90+ invited presentations at university/industry seminars, legislative briefings, conferences
- Led data science and modeling for Connecticut and Department of Public Health during COVID-19 pandemic

*Senior Scientist* (2021 – present)

Whitespace LTD, Alexandria, VA

- Led R&D and built analysis tools for geospatial intelligence startup

*Scientific Consultant / Subject Matter Expert* (2018 – present)

I work with private sector and government clients to solve problems in biomedicine, epidemiology, diagnostics, market forecasting, national security, and human rights. Selected clients:

- Twist Bioscience / Revelar Biotherapeutics (South San Francisco, CA)
- Metron Inc (Reston, VA)
- Global Diagnostic Systems (Potomac, MD)
- Re-open Connecticut Advisory Committee, Connecticut Department of Public Health
- US Department of Labor, Project to Accelerate Action Against Child Labor and Forced Labor
- US Department of State, NORC (Bethesda MD), Global Fund to End Modern Slavery

## Education

PhD Biomathematics, University of California Los Angeles (2012)

MS Biomathematics, University of California Los Angeles (2009)

BA Neuroscience, Oberlin College (2002)

## Skills

I have broad expertise in quantitative science and analysis – mathematics, statistics, computation – as well as 20 years experience in biomedical science, biotechnology, bioengineering, neuroscience, public health, evolution, and epidemiology.

- Leadership: project management, product strategy, technical R&D, mentoring
- Evaluation: causal inference, policy analysis, randomized experiments, A/B testing
- Programming/computing: Python, R, Git, Unix/Linux/GNU
- Methodologies: AI/ML, modeling, GIS, forecasting/prediction, optimization, algorithms, parallel computing