

Contact

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Top Skills

Environmental Health

Anesthesiology and Pain Medicine

Neuroscience

Karamarie Fecho

Founder and CEO, Copperline Professional Solutions, LLC
Raleigh-Durham-Chapel Hill Area

Summary

BRIEF BIO

- Doctoral-level, team-oriented biomedical consultant with exceptional critical thinking skills and outstanding writing and communication skills, >270 scholarly publications and products
- Expertise in clinical and biomedical knowledge discovery and the translation of scientific insights into actionable outcomes and tangible products through the application of state-of-the-art tools and approaches in informatics and data science
- Proficiencies in clinical and translational science (anesthesiology, pain genetics, pain medicine, environmental health, neuroscience, immunology, pharmacology, psychology, psychoneuroimmunology) and data science (data processing, data modeling, data standards, data analytics, clinical and biomedical informatics, software development)
- Demonstrated ability to lead large teams in collaborative team science and the delivery of high-impact publications, products, and technologies

PUBLICATIONS, PRODUCTS, AND TECHNOLOGIES

- Served as author on >170 scholarly publications and products, including ~65 peer-reviewed journal articles (first/lead or last/senior author on majority of articles), >20 white papers and technical reports, 3 book chapters, 3 requested articles, ~50 peer-reviewed conference papers and proceedings, 12 internal consortial publications, and 10 software products
- Served as technical and medical writer on >100 scholarly publications and products for the pharmaceutical and biotechnology sectors, including peer-reviewed journal articles, systematic reviews, regulatory documents, conference proceedings, slide decks, promotional products, and professional training materials

Experience

Copperline Professional Solutions, LLC

Founder and CEO

May 2010 - Present (15 years 2 months)

Founder and President, Copperline Professional Solutions, LLC — a biomedical consulting and communications company that specializes in the implementation of tailored solutions to accelerate organizational or project goals in the discovery and translation of clinical and biomedical insights into actionable outcomes and tangible products

- Currently working on multiple projects with large teams of experts (>200 persons across dozens of institutions) to create and apply massive biomedical knowledge graphs for clinical and translational science
- Leading user engagement efforts and the development of impactful scientific use-case applications
- Coordinating and directing the dissemination of software technologies and scientific findings via customary means of publications and presentations and less traditional means such as “mini-hackathons”
- Helping to secure continued streams of funding to ensure that software technologies are sustainable

Clients include:

UNC Chapel Hill ~ Columbia University ~ Vanderbilt University ~ Insilica ~ Synchrony Medical Communications ~ Synchrony Healthcare Communications ~ TARGET PharmaSolutions ~ Axial Exchange ~ AutismSphere ~ Dignify Therapeutics ~ Hearing Solutions Center ~ Henry Ford Health System ~ QBMI PhotoMedicine ~ Multi Radiance Medical ~ Lab Corps ~ Xelay Accumen

For more information, please see: <http://copperlineprofessionalsolutions.com>.

Renaissance Computing Institute

Research Associate/Collaborator

January 2012 - Present (13 years 6 months)

- Actively engaged in several, large-scale, nationwide, open-source, software technology projects focused primarily on open-source clinical data services and biomedical knowledge graphs

- Developed proposals from concept papers to grant applications, leading to > \$22M in funding from the National Institutes of Health and the National Science Foundation, 2016–2025

Department of Anesthesiology, School of Medicine, University of North Carolina at Chapel Hill

Assistant Professor

January 2004 - June 2010 (6 years 6 months)

- Developed and directed a data-driven, team-oriented, research-based, Quality Assurance/Performance Improvement program on perioperative adverse events and postoperative pain; integrated and analyzed large perioperative data sets; prepared peer-reviewed journal articles and internal hospital reports designed to guide improvements in clinical practice and patient safety
- Served as Principal Investigator on an award supplement to UNC's Clinical and Translational Science Award from the National Institutes of Health (Marschall S. Runge, PI)
- Developed and directed the Anesthesiology Medical Student and Resident Research Program — a highly successful medical research training program that contributed to multiple awards at the Gulf Atlantic Anesthesia Residents' Research Conference and the John B. Graham Medical Student Research Day, as well as funded internships through the Carolina Medical Student Research Program and the NIH Minority Research Training Program, as well as numerous peer-reviewed journal articles and conference papers/presentations
- Served as faculty mentor for students in the School of Medicine MD-MPH Leadership Program and Research Apprenticeship Program

Center for Neurosensory Disorders, University of North Carolina at Chapel Hill

Assistant Professor

July 2002 - October 2003 (1 year 4 months)

- Developed and directed basic science projects and contributed to clinical studies on pain genetics and opioid-induced hyperalgesia
- Supervised and trained graduate students and research assistants on research methodology, including study design, data management, and statistical analysis

Department of Psychology and Neuroscience, University of North Carolina at Chapel Hill

Assistant Professor

January 1998 - June 2002 (4 years 6 months)

- Developed and directed basic science projects on opioid analgesics and acute inflammation
- Served as Principal Investigator on an Individual National Research Service Award from the National Institute on Drug Abuse, National Institutes of Health, two grant awards from the UNC Chapel Hill University Research Council, and a Young Investigator Award from the N.C. Governor's Institute on Alcohol and Substance Abuse
- Served as Co-Investigator on two grant awards from the National Institute on Drug Abuse, National Institutes of Health (Donald T. Lysle, PI)
- Developed and taught undergraduate courses on "Drugs & Human Behavior", "Introduction to Biopsychology", "Independent Research in Psychology", and "Special Topics in Biology"

Education

University of North Carolina at Chapel Hill

Graduate Certificate, Core Public Health Concepts, School of Public Health · (2006 - 2009)

UNC School of Medicine

Fellowship, Clinical Research Scholars Program · (2004 - 2006)

University of North Carolina at Chapel Hill

Fellowship, Neurosensory Disorders & Pain Genetics · (2002 - 2003)

UNC School of Medicine

Fellowship, Rheumatology & Immunology · (1995 - 1997)

UNC School of Medicine

PhD, Neurobiology · (1990 - 1995)