

MATTHEW DAVID BRADY, PHD

Matthew_Brady@kenan-flagler.unc.edu | 203-722-2802 | linkedin.com/in/matthew-brady-phd

EDUCATION

UNIVERSITY OF NORTH CAROLINA, Kenan-Flagler Business School – Chapel Hill, NC **May 2028**

Master of Business Administration Degree (MBA)

Vetter Dean's Fellow, Leadership Program (top 10% of class); R. Steven Vetter MBA Fellowship – Full Tuition

Intended Concentrations: Energy; Corporate Finance

UNIVERSITY OF NORTH CAROLINA – Chapel Hill, NC

Dec 2019

Doctor of Philosophy Degree (PhD), Chemistry

Dissertation: Fundamental Insights into Dye-Sensitized Interfaces for Solar Fuels Production

DAVIDSON COLLEGE – Davidson, NC

May 2015

Bachelor of Science Degree (BS), Chemistry (cum laude), Minor in Mathematics

Graduated with Honors in Chemistry; Gamma Sigma Epsilon Chemistry Honors Society President

EXPERIENCE

INSTITUTE FOR DEFENSE ANALYSES (IDA) – Alexandria, VA **2022 – 2026**

Research Staff Member, Operational Evaluation Division

- Led technical assessment of multi-billion-dollar Land and Expeditionary Warfare acquisition programs, driving Congressional reallocation of \$400M+ toward higher-performing priorities.
- Directed a six-member cross-functional team as primary analyst on Soldier Combat Systems portfolio, delivering findings under tight deadlines and rigorous senior-stakeholder scrutiny.
- Briefed senior U.S. government officials on complex technical findings across 71 briefings and reports (31 as principal author), translating analysis into actionable recommendations for executive decision-makers.
- Earned IDA's Spotlight Award for exemplary client support (former TS/SCI clearance).

BATTELLE MEMORIAL INSTITUTE – Charlottesville, VA

2021 – 2022

Chemist II – Chemistry Researcher, Counter-WMD Solutions: National Security Department

- Led a three-person team as principal author of a major report assessing the strategic landscape of emerging and disruptive semiconductor technologies, briefed directly to Department of War stakeholders.
- Researched classified chemical warfare defense challenges for DoW clients, synthesizing open-source and gray-source intelligence into actionable technical assessments.

CREE, INC. – Durham, NC

2019 – 2021

Research Scientist, XLamp Research and Development Department

- Drove 4x improvement in yield-to-order (13%→54%) through novel brightness encapsulation design, cutting manufacturing costs and improving product reliability.
- Led engineering effort from design through full-rate production of automotive-grade LED products, executing a 100x scale-up strategy from domestic pilot line to international manufacturing (>1M quarterly units).
- Co-invented and secured U.S. Patent 11,688,832 (CreeLED), a next-generation LED packaging design that shrank device size while improving optical performance for automotive lighting applications.

UNIVERSITY OF NORTH CAROLINA – Chapel Hill, NC

2015 – 2019

Graduate Research Assistant and Teaching Assistant, Chemistry Department

- Awarded highly competitive (<10% acceptance rate) Department of Energy Office of Science Graduate Student Research (DOE SCGSR) Fellowship to conduct alternative energy research studies at Brookhaven National Laboratory.
- Authored 11 peer-reviewed publications (2x+ research group average), cited 560+ times, while collaborating with 25 scientists across and beyond the research group.
- Instructed 200+ students across four semesters as CHEM 550L Synthetic Chemistry teaching assistant, focusing on safety and mastery of advanced synthetic chemistry techniques through practical instruction.

ADDITIONAL INFORMATION

- Technical Skills: Excel; JMP; Mathematica; R; Origin; LabView
- Professional Groups: Kenan-Flagler MBA Energy Club; Alexander Hamilton Society – Defense Strategy & Policy Seminar
- Interests: Rugby (200-level USARugby-certified coach); Half Marathons; Tennis; Golf; Skiing; Travel (13 countries to date)