

Elizabeth M. Boatman

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OBJECTIVE

Excellence oriented, highly motivated, fast learner with strong communication and interpersonal skills seeking a dynamic position in product management and development with a cross-teams emphasis.

SUMMARY

- M.S.-Ph.D. in Materials Science & Engineering, University of California at Berkeley.
- 9+ years of experience with cross-teams collaboration to deliver on-time, market-sensitive decisions based on customer input, while managing progress toward strategic goals.
- Experienced in competitive landscape evaluation and documentation of trends.
- Well-rounded training in team development, conflict resolution, and project management.
- Adept communicator with award-winning background in technical communication.

EXPERIENCE

Assistant Professor of Physics & Engineering | 6+ Years

Gustavus Adolphus College (MN), Wake Forest University (NC), University of Wisconsin-Stout (WI)

- Led new program development efforts in a cross-departmental collaborative environment, to identify objectives and goals, then established and adhered to an on-time delivery schedule for three (3) new undergraduate engineering major 4-year curricula.
- Conducted comprehensive landscape evaluation and documentation of trends in undergraduate engineering education, using data obtained from a range of sources (user stories, peer-reviewed publications, etc.) to inform decision-making activities.
- Oversaw strategic communications plans for launch and delivery, development of annual budgets and 10-year financial models, and changes to existing courses and curriculum plans, while engaging diverse stakeholder groups (e.g., advisory boards, university leadership).
- Led three (3) efforts to design then build-out materials characterization laboratories, including the development of cost estimates for space renovation, while adhering to budgets (>\$100,000).
- Routinely instructed undergraduate engineering and physics courses (3 courses/semester), including managing faculty teams for new course development, with solicitation of regular end user feedback, incorporated into iterative improvements in course product.
 - e.g., Machine Component Design, Solid State Physics, Advanced Laboratory Methods for Physicists, Mechanics of Materials, Dynamics, project-based first-year engineering courses.
- Developed a strong background in engineering fundamentals and technical subjects specific to mechanical and manufacturing engineering and materials characterization, including mechanical testing in accordance with standardized testing protocols (e.g., ASTM).
- Analyzed scientific results and communicated conclusions to diverse audiences with tailored messaging, including effective visual presentation of data and oral presentations.
 - **E. M. Boatman**, M. B. Goodwin, H.-Y. Holman, S. Fakra, W. Zhang, R. Gronsky, M. H. Schweitzer, "Mechanisms of soft tissue and protein preservation in *Tyrannosaurus rex*," *Scientific Reports* (2019).
- Presented original research at technical conferences and society meetings.
- Intensively trained in team development and project management methods and tools.

AAAS Science & Technology Policy Fellow | 2 Years

National Institute of Justice (U.S. Dept. of Justice) & National Science Foundation (Washington, D.C.)

- Co-directed product (graduate fellowship) development activities and strategy, making recommendations to agency leadership on revisions to technical specifications based on extensive market analysis, summarized in a written report and presented orally.
- Re-drafted existing technical documentation (award solicitation) for consistency with new specifications, managing all review and approval activities with in-house legal.
- Co-developed then co-led the deployment of a directorate-wide communications training effort to enhance the quality of communications (abstracts) serving as the public-facing record of agency award activities.
- Extensively trained in communications strategy development for products and cross-platform execution, including data analytics to monitor progress toward target metrics.
- Attended trade shows and inter-agency technical standards meetings to better understand customer and end user insights and gain perspective on associated technology landscape.
- Participated in long-range agency planning activities, including planning sessions with cooperative agreement awardees, and by identifying opportunities inter-agency collaboration.

LEADERSHIP

- **Chair** of hiring committees for Administrative Assistant and Professor of Practice positions (WFU).
- **Director** of STEMM Student Expo showcasing 200+ student projects (UW-Stout).
- Elected **President** of Materials Science and Engineering Graduate Student Council (UC-Berkeley).
- Elected **Representative** of Graduate Assembly Representative to Faculty Senate (UC-Berkeley).

EDUCATION

Ph.D.	University of California, Berkeley December XXXX GPA X.XX	Major: Materials Science & Engineering Minors: Bioengineering, Integrative Biology <u>Dissertation title: "XXXX"</u>
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- **Dissertation Fellowship**, Phi Beta Kappa - Northern California Association.
- **National Defense Science and Engineering Fellowship**, U.S. Department of Defense.
- **Miller Award** recipient for outstanding graduate research, *Microscopy & Microanalysis 2012*.
- **Best Student Poster Award** recipient, *Microscopy & Microanalysis 2011*.

M.S.	University of California, Berkeley May XXXX	Major: Materials Science & Engineering <u>Project title: "XXXX"</u>
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- **Chancellor's Fellowship**, University of California-Berkeley.

B.S.	Beloit College (Beloit, WI) May XXXX GPA X.XX	Majors: Physics, Applied Chemistry Study abroad: Queensland University of Technology <i>Phi Beta Kappa (inducted 2006)</i>
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- **Best Public Speaker**, Pew Science and Mathematics Undergraduate Research Symposium.