

Eileen Thai's passion for healthcare was ignited by her relatives' health care struggles. As a hand therapy aide, she saw saw a wide variety of upper extremity chronic conditions, inspiring her to shift to design for prevention. Focusing on design and occupational environments to optimize worker health, she went into the field of human factors and ergonomics!

Through **dedicated NIOSH**support and a vibrant
research community,
without financial burdens,
Eileen focused on academic
pursuits that fostered
professional growth and
networking opportunities
through COEH.

Still in the interview stage,
Eileen is excited to graduate
with her MPH this May and
pursue a career in human
engineering with a focus in
aviation and medical
technologies.

FOR MORE INFO



Scan the QR code for more information on our Research For questions, contact coeh@berkeley.edu

FROM HAND THERAPY TO HUMAN FACTORS AND ERGONOMICS

HER THESIS

- Developed a predictive model for EMG-based normalized peak force
- Focused on identifying cost-effective & accessible predictors to predict hand force

HER BOEING INTERNSHIP

- Conducted a validation study on ergonomics requirements, collaborating with various departments such as Ergonomics, Environmental Health and Safety, and Engineering
- Gained insights relevant for establishing guidelines regarding aviation and ergonomics
- Honed self-development, enjoying a hands-off approach while still receiving guidance from mentors and preceptors
- Sharpened her organizational skills and ability to adapt quickly in this busy environment

HOW SHE SHARED HER FINDINGS

Medium-Term

Initiatives

- Presented to Ergonomics, Environmental Health and Safety, and Product Development teams at BOEING, aiming to inform future design requirements
- Ongoing communications with these departments seek to clarify her research and explore ways to integrate her findings into current practices, emphasizing the importance of ergonomics in aviation safety

Organizational

Technology



Long-Term

Initiatives

INJURY PREVENTION STRATEGY

NEXT STEPS

Immediate

- Identify ways to incorporate EMG data without disruption to workflows
- Ensure short-term solutions are practiced & monitored for compliance
- Find cheaper & less complicated tools to replace EMG cuff use for easier adoption & widespread use among the workforce
- Expand understanding of consequences of noncompliance as a company embraces implementation and worker safety