Susan Men

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SUMMARY

Aspiring materials scientist with over 7 years of experience advancing ceramic material systems through innovative design, fabrication, and multi-scale characterization. Skilled in evaluating chemical, thermal, and mechanical properties using advanced techniques (SEM, TEM, XRD, AFM, FIB). Proven ability to lead cross-disciplinary projects, deliver technical presentations, and collaborate effectively with academic and industry partners to translate research into practical applications.

EDUCATION

University of California, Irvine, Irvine, CA
Ph.D. Candidate, **Materials Science and Engineering**, June 20XX

University of California, Irvine, Irvine, CA
M.S., **Materials Science and Engineering**, June 20XX

Beijing Institute of Technology, Beijing, China
B.S., Materials Science and Engineering, May 20XX

SKILLS

- Scanning electron microscopy (SEM), energy-dispersive x-ray spectroscopy (EDX), x-ray diffraction (XRD), and electron backscatter diffraction (EBSD)
- Transmission electron microscopy (TEM) and focused-ion beam (FIB)
- LabView, Adobe Photoshop, Adobe Illustrator, ImageJ, Igor, TRIM and Microsoft
- Mandarin (fluent), Japanese (conversational)

RESEARCH EXPERIENCE

Graduate Researcher, UC Irvine, Irvine, CA, September 20XX - present

- Lead the design of multiphase ceramic material systems for dental and energy applications.
- Fabricate materials and investigate chemical, thermal and mechanical properties with improved processes to optimize material systems.
- Supervise and train junior members, set goals, assign tasks, and provide advice on results analysis.
- Synthesized colloidal particles using stop-flow lithography in a microfluidic device.
- Characterized collagen for biomedical application.
- Present research outcomes at International Conference attended by over 1,000 scientists.

Research Specialist, California Institute for Telecommunications & Information Technology
Irvine, CA, September 20XX – August 20XX

- Applied AFM to characterize nanotube morphology and mechanical properties, generating high-resolution data that informed material optimization and advanced ongoing research.
- Partnered with industry collaborators to define project needs, communicate technical progress, and deliver actionable results, strengthening research–industry alignment and accelerating development timelines.

Visiting Researcher, Los Alamos National Laboratory, Los Alamos, NM, December 20XX

- Conducted ion-irradiation experiments on potential ceramic inert matrix nuclear fuel materials.
- Collaborated with nuclear energy specialists and presented findings to diverse audience.

Senior Design Project, Tsinghua University, Beijing, China, August 20XX- May 20XX

- Engineered vascular tissue and biomaterials for potential prosthetics.
- Utilized Pla/Lecithin blending to electro spin in biomaterials lab.

TEACHING EXPERIENCE

Teaching Assistant, UC Irvine, Irvine, CA September 20XX-June 20XX

- Prepared and delivered lectures for the following courses: Introduction to Materials Lab, Advanced Materials Lab, Materials Selection and Design, Mechanical Behavior of Materials, XRD, SEM and Microanalysis.
- Provided targeted experiment assistance, held office hours, presented review sessions, and evaluated performance for groups of 50-100 undergraduate students.
- Consistently received high scores (9 out of 10) on student evaluations.

SELECT PUBLICATIONS

- **S. Men**, M. L. Mecartney, "Superplasticity and Machinability in a 4-Phase Ceramics," submitted, Jan 20XX
- **S. Men**, M. Patel, K. Sickafus, M. L. Mecartney, "Multiphase Ceramics for Inert Matrix Nuclear Fuel," submitted, May 20XX
- C. M. Hoo, **S. Men**, L. Taherabadi, M. L. Mecartney, "Grain-Boundary Sliding in a Superplastic Three-Phase Alumina–Zirconia–Mullite Ceramic Composite," J. Am. Ceram. Soc., 94 [7] 2171–2180 (20XX)

PRESENTATIONS AND POSTERS

- **S. Men**, Y. Lu, J. Horwath, M. Sullivan, D. Mumm, M. Patel, K. Sickafus, M. L. Mecartney, "Thermal Conductivity of Multiphase Ceramics for Inert Matrix Nuclear Fuel," 36th International Conference and Exposition on Advanced Ceramics and Composites, Oral presentation, Jan 20XX
- **S. Men**, M. Patel, K. Sickafus, M. L. Mecartney, "Multiphase Ceramics for Inert Matrix Nuclear Fuel," Gordon Research Conference, Poster presentation, Aug 20XX
- **S. Men**, M. L. Mecartney, "Superplasticity and Machinability in a 4-Phase Ceramics," Materials Science and Technology 20XX Conference and Exhibition, Poster presentation, Oct 20XX

PROFESSIONAL AFFILIATIONS

American Ceramic Society Member, 20XX – 20XX
Society of Material Scientists Member, 20XX – Present

LEADERSHIP

Society of Asian Scientists and Engineers, UC Irvine chapter, 20XX – 20XX

- Co-founded UC Irvine chapter and grew membership by 50% in six months.
- Planned and organized career events to provide student members with opportunities to attend industry panels and attend visit local scientific organizations.