

Joshua K. Yee

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Education

- B.S. Materials Science Engineering, University of California, Irvine, 2011.
- B.S. Mechanical Engineering, University of California, Irvine, 2011.
- M.S/Ph.D. Materials Science and Engineering, University of California, Davis, 2015 (anticipated).

Research Experience

Date	Project	Primary Investigator
2011-present	Investigation on the Influence of Deformation on Hydrogen Storage Properties in a Palladium Alloy (collaboration with Sandia National Laboratories)	Professor E. J. Lavernia (UC Davis)
2011-present	Fabrication of Bismuth Telluride-Based Thermoelectric Materials Using Powder Metallurgy Processing Techniques (collaboration with Sandia National Laboratories)	Professor E. J. Lavernia (UC Davis)
2009-2011	Fabrication and Characterization of a Cryomilled Aluminum Alloy Stabilized by Nanosized Particles	Professor F.A. Mohamed (UC Irvine)
2008-2011	Investigation of Grain Boundary Sliding during Deformation of Nanocrystalline Nickel	Professor F.A. Mohamed (UC Irvine)
2010	Structure and Mechanical Properties of Armadillo Armor	Professor M. A. Meyers (UC San Diego)
2008	The Effect of Annealing on Hardness and Modulus of Elasticity in Bulk Nanocrystalline Nickel	Professor F.A. Mohamed (UC Irvine)
2007	Characterization of Aluminum Alloys and Composites Fabricated via Cryomilling	Professor E.J. Lavernia (UC Davis)

Awards

- Sandia National Laboratory Campus Executive Fellowship (2012-present).
- National Physical Science Consortium (NPSC) Fellowship (2011).
- Engineer of the Year, Chemical and Biochemical Engineering and Materials Science (CBEMS) Department of the Henry Samueli School of Engineering, UC Irvine (2011).
- University of California Leadership and Excellence through Advanced Degrees (UC LEADS) Fellowship: awarded for work on “Investigation of Grain Boundary Sliding during Deformation of Nanocrystalline Metals” (2009-2011).

- UC Irvine Undergraduate Research Opportunities Program (UROP) Fellowship: awarded for work on “Investigation of Grain Boundary Sliding during Deformation of Nanocrystalline Metals” (2008-2009).
- UC Irvine Summer Undergraduate Research Program (SURP) Fellowship: awarded for work on “Investigation of Grain Boundary Sliding during Deformation of Nanocrystalline Metals” (2008).

Symposia Oral Presentations

- Yee, Joshua K. 2009. Investigation of Boundary Sliding During Deformation of Nanocrystalline Metals. Oral presentation presented at the UCI Graduate Division Summer Research Program Research Symposium, August 13, UC Irvine.
- Yee, Joshua K. 2010. Structure and Mechanical Properties of Armadillo Armor. Oral presentation presented at the UC San Diego Summer Undergraduate Research Symposium, August 13, UC San Diego.
- Yee, Joshua K. 2012. Processing of nanostructured Pd for H storage. Oral presentation presented at MS&T 2012, Oct 7-11, Pittsburgh, PA.
- Yee, Joshua K. 2012. Synthesis of bulk nanostructured Bi₂Te₃ by spark plasma sintering and hot extrusion and its impact on thermoelectric transport. Oral presentation presented at MS&T 2012, Oct 7-11, Pittsburgh, PA.

Symposia Poster Presentations

- Komai, Ricardo K., Andrew Marquez, Joshua K. Yee, Khinlay Maung, and Farghali A. Mohamed. 2009. Investigation of Boundary Sliding During Deformation of Nanocrystalline Metals. Poster presented at the TMS 2009, February 16, San Francisco.
- Yang, Heather W., Anna Torrents, Joshua K. Yee, and Farghali A. Mohamed. 2009. Effect of Annealing on Hardness and the Modulus of Elasticity in Bulk Nanocrystalline Nickel. Poster presented at the TMS 2009, February 16, San Francisco.
- Yee, Joshua K., Ricardo K. Komai, Andrew Marquez, Khinlay Maung, and Farghali A. Mohamed. 2009. Investigation of Boundary Sliding During Deformation of Nanocrystalline Metals. Poster presented at the UCI Undergraduate Research Symposium, May 16, UC Irvine.
- Yee, Joshua K., Ricardo K. Komai, Andrew Marquez, Khinlay Maung, and Farghali A. Mohamed. 2010. Investigation of Boundary Sliding During Deformation of Nanocrystalline Metals. Poster presented at the TMS 2010, February 15, Seattle.
- Yee, Joshua K., James Kiang, Irene Chen, Marc A. Meyers. 2011. Structure and Mechanical Properties of Armadillo Armor. Poster presented at UC LEADS 2011, March 5, UC Berkeley.

Publications

- Zhang, Z., Yee, J.K., Sharma, P.A., Yang, N., Lavernia, E.J., 2013. Influence of porosity on the transport properties of Bi₂Te₃-based alloys by field-assisted sintering. Journal of Materials Research 28, 1853–1861.

Professional Activities

- Director of the National Association of Engineering Student Councils' Western Regional Conference 2009 at UC, Irvine (2009).
- Member of Engineering Student Council at UC Irvine (2008-2011).
- Member of the Materials Science Society at UC Irvine (2006-2011).
- Member of Material Advantage Student Program (2006-present).