# SHAZIB Z. VIJLEE

("shaz") (pronunciation) (he/him)

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# **Current Positions**

Since Donald P. Shiley School of Engineering, University of Portland

7/2024 Associate Professor

Portland, OR

## Education

2024 University of Portland (Oregon)

Master of Business Administration (in progress, part-time, expected in December 2024)

University of Washington at Seattle

2014 Doctor of Philosophy, Mechanical Engineering

Advisor: Professor John C. Kramlich

Dissertation: Effects of Fuel Composition on Combustion Stability and NO<sub>x</sub> Emissions for Traditional and Alternative Jet Fuels

University of Texas at Austin

2006 Master of Science, Mechanical Engineering

Advisor: Professor David G. Bogard

Thesis: Optimizing a System of Gas Turbine Engines and Generators for Marine Power Generation

2004 University of Texas at Austin

Bachelor of Science, Mechanical Engineering with High Honors

# **Previous Positions**

7/2020 to 6/2024	Donald P. Shiley School of Engineering, University of Portland Associate Dean for Academics, Graduate Program Director, and Associate Professor	Portland, OR
11/2014 to 02/2023	Department of Mechanical Engineering, University of Washington Affiliate Professor	Remote
8/2014 to 6/2020	<b>Donald P. Shiley School of Engineering, University of Portland</b> Assistant Professor	Portland, OR
1/2010 to 7/2014	Energy and Environmental Combustion Lab, University of Washington Graduate Research Assistant	Seattle, WA
1/2010 to 7/2014	Department of Mechanical Engineering, University of Washington Graduate Teaching Assistant	Seattle, WA
Summers 2010 & 2011	Propulsion Directorate, Air Force Research Laboratory Visiting Scientist/Research Fellow	Dayton, OH
1/2009 to 9/2009	<b>Design for Environment Lab, University of Washington</b> Graduate Research Assistant	Seattle, WA
8/2006 to 1/2009	Phantom Works, Boeing Company Engineer	Seattle, WA
1/2005 to 6/2006	Center for Electromechanics, University of Texas Graduate Research Assistant	Austin, TX
Fall 2004	<b>Department of Mechanical Engineering, University of Texas</b> Graduate Teaching Assistant	Austin, TX
Summer 2004	Engineering Sciences Center, Sandia National Labs Engineer	Albuquerque, NM

# **Experience**

# Projects & Funded/Unfunded Proposals (Abbreviated)

2019	UP Engineering and UP English (Co-Principal Investigator) Improving Writing Instruction, Practice, and Feedback in Introduction to Engineering Granted: \$5,000 proposal-based (Provost's Office)
2018	UP Engineering and U Wyoming Engineering Experiments with Collaborator at the University of Wyoming Granted: \$4,260 proposal-based (Donald P. Shiley School of Engineering)
2017	UP Engineering, UP Nursing, and UP Academic Technology Services and Innovation (Participant) Untethered Lecture Capture Gifted: \$1,060 of classroom technology (Provost's Office)
2017	UP Engineering, UP Education, and UP STEM Center (Co-Principal Investigator) Robotics Education for Elementary-aged Students Unfunded: \$640,000 (NSF Innovative Technology Experiences for Students and Teachers)
2016	UP Engineering (Principal Investigator) Analysis of Charcoal Samples for Composition and Energy Content Granted: \$1,809 proposal-based (Arthur Butine Award for Faculty Development)
2016	UP Engineering (Principal Investigator) Pre-Engineering Program for High School Seniors Gifted: \$8,000 (Private Donor)
2016	UP Engineering & U Wyoming Engineering (Co-Principal Investigator with Dr. Belmont of UWyo) Advancement of Renewable Crops for Energy in Developing Countries Unfunded: undisclosed amount (NSF Partnerships for International Research and Education program)
2014	UP Engineering (Co-Principal Investigator with Drs. Dillon and Murty) Acquisition of Fluid Dynamic Flow Visualization System Unfunded: \$200,000 proposal-based (NSF Major Research Instrumentation)
2014	UP Engineering (Principal Investigator) Laminar, Premixed Flat Flame Burner Granted: \$5,000 proposal-based (Arthur Butine Award for Faculty Development)
2012	UW Engineering (Graduate Student Assistant) Analysis of the UWME curriculum to work towards increased enrollment and improved experience Granted: <\$10,000 unsolicited (UW Department of Mechanical Engineering)
2011	UW Combustion & Air Force Research Laboratories (Research Fellow) Development of experiments to study emissions from jet fuel surrogates Granted: <\$20,000 proposal-based fellowship (US Department of Defense)
2008	Boeing Phantom Works (Principal Investigator) The initial analysis and conceptual considerations of alternate concepts for the aircraft auxiliary power unit. Granted: <\$20,000 proposal-based (Boeing Company)

## **Teaching Experience**

Notes: number of sections in parentheses, \* indicates University Core course, + indicates original course development, ^ indicates significant course transformation

University of Portland (as Assistant or Associate Professor)

Anchor Seminar (2)\* Introduction to Engineering (12)^
Fundamental Thermodynamics (4) Applied Thermodynamics (7)

Thermal Systems Lab (17)<sup>^</sup> Combustion (4)+

Engineering Economics (4)<sup>^</sup> Engineering Capstone I/II (3)<sup>^</sup>

University of Washington (as Teaching Assistant or Instructor)

Fundamental Thermodynamics (1) Energy Conversion (2) Kinematics & Dynamics (1) Heat Transfer (2)

University of Texas (as Teaching Assistant) Fundamental Thermodynamics (1)

## **Students Mentored**

	Undergraduate Apprentices	High School Apprentices	Graduate Researchers
2022	Katt Gamblin <sup>UP</sup>		
2018			Alexandra Howell <sup>UWY</sup>

2017	Alex Junge <sup>UP</sup> Weslyn Nishimura <sup>UP</sup>		Ahmed Balogun <sup>UWY</sup> Anamol Pundle <sup>UWA</sup>
2016	Dylan Jones <sup>UP</sup> Isabel Kalnin <sup>UP</sup>		
2015	Kara Kindt <sup>UP</sup> Amanda Thompson <sup>UP</sup>	Joshua Bamberger <sup>BHS</sup> Alfredo Reyes <sup>MHS</sup>	
2013	Garrett Allawatt <sup>UWA</sup> Devin Chandler <sup>UWA</sup>		Himanshu Kapoor <sup>UWA</sup>
2012	Austin Montgomery UWA		Calin Schell <sup>UWA</sup>
2009	Eri Amasawa <sup>UWA</sup>		
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Notes:

UP = University of Portland BHS = Beaverton High School UWA = University of Washington MHS = Madison High School UWY = University of Wyoming

# **Capstone Teams Mentored**

2023 - 2024 | University of Portland | Hyster Yale - Electric Tilt Control System Students: Carson Akai, Vanyel Sinlao, and Brent Torres

2019 – 2020 | University of Portland | Nossa Familia Coffee – Giant French Press Students: Dillon Kodama, Jeremy Quilizapa, Payson Wilde, and Maximilian Reithmayer

2019 - 2020 | University of Portland | Combustion Testing Device Students: Wesley Chambers, Kenra Deangelis, Keegan McCrary, and Morgan Nelson

2018 - 2019 | University of Portland | Biotronik - Reservoir Temp Students: Julia Heseltine, Dana Lawson-Rivera, James Martin, and Steven Johnson

2018 - 2019 | University of Portland | Burn Design Labs - Shea Roaster Students: Haley Meisburger, Spencer Marcinko, and Michael Roberts

2017 - 2018 | University of Portland | Briquette Press Students: Connor Cronin, Tyler Cuff, Sage Guttes, Matt Linhart, and Collin Pierce

2017 - 2018 | University of Portland | Biomass Kiln Students: Chad Kon, Alek Fredricksen, Nick Edwards, and Weslyn Nishimura

2016 - 2017 | University of Portland | BioKiln Students: Ben Bui, Brandon Chan, Patrick Lum, and Callie Quezada

2016 - 2017 | University of Portland | Torrefaction of Biomass Students: Chris Cardoza, Katie Cummins, Rudi Hamsa, Kevin Hanscam, Tim Miles, and Paul Munn

2015 - 2016 | University of Portland | Bonzeb - Kiln Students: Emma Just, Kara Kindt, Lindsey Roth, and Coleman Salter

2014 - 2015 | University of Portland | Optical Engine Students: Calvin Collander, Hunter Cantrell, and Joe Griffin

Spring 2012 | University of Washington | Conduction Heat Transfer Labs Students: Alan Guthrie, Michael Hartley, Alex Moon, and Krista Simonson

Spring 2012 | University of Washington | Radiation Heat Transfer Labs Students: Clyde Downing, Nick Gacek, Alex Gramling, and Vasili Ialanji

Fall 2011 | University of Washington | Radiation Heat Transfer Labs Students: Jemma Gaber, Griffen Latimer, and James VanDeusen

## **Achievements**

#### **Awards & Funded Grants**

2023 UP Shiley Grants for Faculty Research and Development
UP Arthur Butine Award for Faculty Development
President's Team Award (as member of Title IX Team)

2021 UP Shiley Grants Award for Faculty Development (with Dr. Jordan Farina)
UP Shiley Grants Award for Faculty Development (with Ms. Jamie Merritt)

2019 UP Ignite Grants for Faculty Innovation in Teaching and Learning (with Dr. Molly Hiro) 2018 UP Shiley Grants Award for Faculty Development 2017 UP Athletics Difference Award 2016 UP Arthur Butine Award for Faculty Development UP Arthur Butine Award for Faculty Development 2014 UW Department of Mechanical Engineering Endowed Students First Fellowship UW Department of Mechanical Engineering Graduate Student Commencement Speaker 2012 UW College of Engineering Dean's Fellowship US Air Force Research Fellowship 2011 UW Mechanical Engineering Teaching Assistant of the Year Nominee 2010 UW Mechanical Engineering Teaching Assistant of the Year Nominee UT College of Engineering Graduate Fellowship 2004 UT Honors Day College Scholar Steve K. Sin Endowed Presidential Scholarship 2003 University Honors UT Honors Day Scholar Edward Morgan and Rebecca Brown Case Endowed Presidential Scholarship 2002 **University Honors** UT Honors Day Scholar 2001 **University Honors** Texas Society of Professional Engineers Scholarship 2000 **University Honors** 

#### **Societies**

American Society of Engineering Education - ASEE (since 2008)
American Society of Mechanical Engineers - ASME (since 2008)
Combustion Institute - CI (2014-2023)
Association for Science Teacher Education - ASTE (2018-2019)
American Chemical Society - ACS (2014 - 2017)
Tau Beta Pi (Engineering Honor Society) - Texas Alpha (since 2002)
Pi Tau Sigma (Mechanical Engineering Honor Society) - Texas Kappa (since 2002)
Sigma Gamma Tau (Aerospace Engineering Honor Society) - Texas Alpha (since 2001)

#### Professional Development

Faith & Intellectual Life Discussion Group – since 2022 (Portland, Oregon)

ABET Fundamentals of Program Assessment Workshop – 2022 (Online)

Exploring Anti-Racism & Social Justice in Engineering Curricula by University of San Diego – 2020 (Online)

Search Advocacy Training by Oregon State University– 2020 (Online)

Rapid Learning Cycles – 2019 (Portland, Oregon)

Kern Entrepreneurial Engineering Network (KEEN): Innovating Curriculum with Entrepreneurial Mindset – 2018 (Tampa, Florida)

Culturally Relevant Teaching for College STEM Faculty: An Interactive Workshop – 2017 (Portland, Oregon)

American Society for Engineering Education: National Effective Teaching Institute 1A – 2015 (Austin, Texas)

#### **Credentials**

Resident Status: United States Citizen
Security Clearance: United States Department of Energy Level L (expired)
Certification: Engineer In Training (EIT) - Texas

#### Service

# University of Portland

University Level

2024-Pres. Committee: Student Success Committee
2023-2024 Committee: Curriculum and Academic Regulations
2023-2024 Task Force: Academic Strategic Planning
2023 only Search Committee: CAS Associate Dean (Search Advocate)
2023 only Search Committee: Provost
2022-Pres. Anchor Seminar Teaching & Development Team
2022 only Faculty Development Day: Co-Organizer (Theme: Beyond the Bluff: Preparing Students to Thrive After UP)

	2020-Pres.	Search Advocate
	2020-2024	Committee: Academic Standing
	2022 only	Search Committee: Director of Teaching and Learning
	2021-2022	Task Force: Center for Teaching and Learning
	2021-2022	Search Committee: College of Arts & Sciences Dean
	2021-2022	Search Committee: Associate Director of Peer-Assisted Learning
	2021-2022	Search Committee: Deans Administrative Assistant
	2021-2022	Task Force: Faculty Development Day Planning
	2020-2021	Search Committee: Mechanical Engineering Tenure Track Faculty
	2020-2021	Committee: Data Governance
	2020-2021	Committee: Collaborative for International Studies & Global Outreach
	2018-2020	Committee: Core Curriculum Revitalization
	2018-2020	Committee: Shiley Marcos Center for Design and Innovation
	2018 only	Presenter: New Faculty Orientation
	2016-2020	Committee: Orientation Planning
	2016-2020	Committee: STEM Education and Outreach Center Executive Committee
	2016-2019	Committee: President's Advisory Committee on Sustainability
	2016-2018	Ambassador: Academic Technology Services and Innovation
	2017-2018	Mentor: New Faculty (Dr. Christy Ivler)
	2016 only	Committee: President's Strategic Planning Committee on Undergraduate Education
	2015 only	Presenter: New Faculty Orientation
S	chool Level	
	2022-?	Academic Council of the Engineering School (ACES)
	2020-?	Dean's Leadership Council (DLC)
	2019-2020	Committee: Engineering Computing
	2017-2018	Committee: Senior Capstone Coordination
	Fall 2016	Committee: EGR 110/111 Committee
	Since 2015	Faculty Advisor: Mechanical Engineering Student Association

# **University of Washington**

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2013 - 2014	Engage - The Science Speaker Series and Seminar, Co-Advisor
2011	UW College of Engineering Council on Education Policy, Graduate Student Representative
2010 - 2014	UW College of Engineering Discovery Days Demonstrator
2010 - 2012	UW Mechanical Engineering Student Seminar Series, Founding Co-Organizer

## **University of Texas**

2004	UT Mechanical Engineering External Advisory Committee Student Panel
2003	Tau Beta Pi (Texas Alpha), Candidate Secretary and Service Chair
2003	Pi Tau Sigma (Texas Kappa), Student Engineering Council Representative

## Community

2023 - 2024	Ambassador Board of De La Salle North Catholic High School
2012	Ballard High School Biotech Academy Project Mentor
2006 - 2009	Habitat for Humanity of Seattle/South King County
2006	Roeing Company Math and Science Afterschool Program

#### **Publications**

 $\underline{\text{Note:}}$  student authors identified with an asterisk (\*)

### Conference Proceedings and Journal Articles (receiving Full Publication Peer-Review)

- 1. <u>SZ Vijlee</u>, "A Multi-Disciplinary First-Year Design Project with Systems Integration, Standard Requirements, Creativity, and Impact," *Proceedings of the ASEE 15<sup>th</sup> Annual First-Year Engineering Experience Conference*, Boston, MA: ASEE, 2024. (DOI)
- 2. <u>SZ Vijlee</u> and MH Hiro, "Improving Writing Instruction, Practice, and Feedback in an Introduction to Engineering Course," *Proceedings of the ASEE Annual Conference and Exposition*, Baltimore, MD: ASEE, 2023. (DOI)
- S Abbasi, JM Wolfand, and <u>SZ Vijlee</u>, "Constructive Controversy: Optimizing Decision Making in Engineering Design Teams," Proceedings
  of the ASEE Annual Conference and Exposition, Minneapolis, MN: ASEE, 2022. (DOI)
- 4. JR Merritt and <u>SZ Vijlee</u>, "A University-High School Partnership for Introduction to Engineering: Building Community with Underrepresented Students," *Proceedings of the ASEE Annual Conference and Exposition*, Virtual: ASEE, 2021. (DOI)
- AN Howell\*, KW Stahlfeld\*, AB Mohammed\*, <u>SZ Vijlee</u>, and EL Belmont, "Gas Independence of Miscanthus x giganteus Torrefied in Nitrogen (N2) and Carbon Dioxide (CO2) using Calibrated Thermogravimetric Analysis," *Bioresource Technology Reports*, Volume 7, Article 100238: Elsevier, 2019. (DOI)
- 6. AB Mohammed\*, <u>SZ Vijlee</u>, and EL Belmont, "Technoeconomic Feasibility of a Sustainable Charcoal Industry to Reduce Deforestation in Haiti," <u>Sustainable Energy Technologies and Assessments, Volume 29, pages 131-138</u>. Elsevier, 2018. (DOI)
- AH Chime\*, AV Kalia\*, SZ Vijlee, IV Novosselov, JC Kramlich, and PC Malte, "Alternative Aviation Fuels Evaluated for Lean-Flame NO<sub>X</sub> and Blowout and Rich-Flame Soot Threshold (GT2018-75564)," Proceedings of the ASME Turbo Expo, Oslo, Norway: ASME, 2018. (DOI)

- 8. KB Fackler, MF Karalus, IV Novosselov, JC Kramlich, PC Malte, and <u>SZ Vijlee</u>, "NO<sub>X</sub> Behavior of Lean-Premixed Combustion of Alternative Gaseous Fuels," *Journal of Engineering for Gas Turbines and Power, Volume 138, Issue 4*: ASME, 2016. (DOI)
- KE Lulay, HE Dillon, TA Doughty, KH Khan, DS Munro, VD Murty, and <u>SZ Vijlee</u>, "Implementation of a Design Spine for a Mechanical Engineering Curriculum (11406)," *Proceedings of the ASEE Annual Conference and Exposition*, Seattle, WA, USA: ASEE, 2015. (DOI)
- 10. <u>SZ Vijlee</u>, IV Novosselov, and JC Kramlich, "Effects of Composition on the Flame Stabilization of Alternative Aviation Fuels in a Toroidal Well Stirred Reactor (GT2015-43014)," *Proceedings of the ASME Turbo Expo*, Montreal, Quebec, Canada: ASME, 2015. (DOI)
- 11. <u>SZ Vijlee</u>, JC Kramlich, AM Mescher, SD Stouffer, and AO Abels, "Characterizing Combustion of Synthetic and Conventional Fuels in a Toroidal Well Stirred Reactor (GT2013-94944)," *Proceedings of the ASME Turbo Expo*, San Antonio, TX, USA: ASME, 2013. (DOI)

## Conference Papers (receiving Abstract/Proposal Peer-Review)

- AN Howell\*, EL Belmont, and <u>SZ Vijlee</u>, "Torrefaction Time and Environment Dependence of Miscanthus Elephant Grass Properties," Proceedings of the Western States Combustion Meeting, Bend, OR: Combustion Institute, 2018.
- 2. <u>SZ Vijlee</u>, JC Hermanson, JC Kramlich, and PC Malte, "Effects of Fuel Composition on NO<sub>X</sub> Emissions for Traditional and Alternative Jet Fuels," *Proceedings of the Western States Combustion Meeting*, Seattle, WA: Combustion Institute, 2016.
- DL Blunck, JP Cain, RC Streibich, <u>SZ Vijlee</u>, SD Stouffer, and WM Roquemore, "Fuel Rich Combustion Products from a Well-Stirred Reactor Operated using Traditional and Alternative Fuels," *Proceedings of the Central States Combustion Meeting*, Dayton, OH: Combustion Institute, 2012.
- 4. <u>SZ Vijlee</u>, A Ouroua, LN Domaschk, and JH Beno, "Directly-Coupled Gas Turbine Permanent Magnet Generator Sets for Prime Power Generation On Board Electric Ships," 2007 IEEE Electric Ship Technologies Symposium, Arlington, VA, USA: IEEE, 2007, pp. 340-347.

#### Institution Reports/White Papers

- 1. S. Vijlee, Effects of Fuel Composition on Combustion Stability and NO<sub>X</sub> Emissions for Traditional and Alternative Jet Fuels, PhD Dissertation, University of Washington, 2014.
- 2. <u>S. Vijlee, Optimizing a System of Gas Turbine Engines and Generators for Marine Power Generation, Master's Thesis, University of Texas at Austin, 2006.</u>
- 3. S. Vijlee, "An Automated Procedure for Analyzing the Effects of Vortex-Induced Fin Pressure on Roll Torque for a Finned Body of Revolution (SAND2004-4378)," Albuquerque, NM, USA: United States Dept. of Energy, 2004.

# Presentations, Conferences, Symposia, Workshops, and Panels

# Conferences/Symposia/Workshops

2023 ASEE National Conference (Baltimore, MD)

Presentation: Improving Writing Instruction, Practice, and Feedback in an Introduction to Engineering Course

2022 AAC&U Curriculum-to-Career Innovations Institute (Virtual)

2021 ASEE National Conference (Virtual)

 $\underline{Presentation} : A \ University-High \ School \ Partnership \ for \ Introduction \ to \ Engineering : Building \ Community \ with \ Underrepresented \ Students$ 

First Year Engineering Experience (FYEE) Conference (Virtual)

2018 NSF Engineering for Us All (E4USA) Curriculum Workshop (College Park, MD)

ASME Turbo Expo (Oslo, Norway)

 $\frac{Presentation}{Presentation}: Alternative \ Aviation \ Fuels \ Evaluated for \ Lean-Flame \ NO_X \ and \ Blowout \ and \ Rich-Flame \ Soot \ Threshold \ (GT2018-75564)$ 

Western States Section of the Combustion Institute Spring Meeting (Bend, OR)

<u>Presentation:</u> Torrefaction Time and Environment Dependence of Miscanthus Elephant Grass Properties (presented by AN Howell and EL Belmont from the University of Wyoming)

KEEN: Innovating Curriculum with Entrepreneurial Mindset Workshop (Tampa, Florida)

- 2017 Western States Section of the Combustion Institute Fall Meeting (Laramie, WY)
- 2016 Western States Section of the Combustion Institute Spring Meeting (Seattle, WA)

  Presentation: Effects of Fuel Composition on NOX Emissions for Traditional and Alternative Jet Fuels
- 2015 ASME Turbo Expo (Montreal, Canada)

<u>Presentation</u>: Effects of Composition on the Flame Stabilization of Alternative Aviation Fuels in a Toroidal Well Stirred Reactor (GT2015-43014) <u>Presentation</u>: NO<sub>X</sub> Behavior for Lean-Premixed Combustion of Alternative Gaseous Fuels (GT2015-42069)

UP Faculty Research Day (Portland, OR)
<u>Session Chair</u>: Butine Award Winners

Presentation: Laminar, Premixed Flat Flame Burner

ASEE National Effective Teaching Institute 1A (Austin, TX)

2013 ASME Turbo Expo (San Antonio, TX)

Presentation: Characterizing Combustion of Synthetic and Conventional Fuels in a Toroidal Well Stirred Reactor (GT2013-94944)

2008 ASME International Conference on Energy Sustainability (Jacksonville, FL)

Boeing Company Fuel Cell Workshop (Everett, WA)

Presentation: Environmentally Sustainable System Design Guidelines

2006 SAE Power Systems Conference (New Orleans, LA)

2005 US Office of Naval Research Electric Ship Research Consortium (Tallahassee, FL)

Presentation: Gas Turbine-Generator Set Optimization

#### Invited Speeches/Presentations

2016 Academic Affairs Committee of the University of Portland Board of Regents (Portland, OR)

Academics Engage the Community and World

2016 52nd Annual Engineers Week High School Dinner (Portland, OR)

Introductory Remarks

2014 UW Mechanical Engineering Graduation Ceremony (Seattle, WA)

Graduate Student Commencement Speaker

UW Mechanical Engineering 10th Annual Scholarship & Fellowship Luncheon (Seattle, WA)

Honored Graduate Student Speaker

2013 UW Science Now/Engage Speaker Series at Seattle Town Hall (Seattle, WA)

Presentation: Burning Alternative Fuels

2005 UT Mechanical Engineering Thermal/Fluid Systems Seminar (Austin, TX)

Presentation: Optimizing a System of Gas Turbine Engine-Generator Sets

#### **Posters**

2017 25th European Biomass Conference and Exposition (Stockholm, Sweden)

<u>Poster</u>: Techno-Economic Feasibility of Miscanthus x gigantus (Elephant Grass) Substitution for Charcoal in Haiti using Monte Carlo Simulation in Net Present Value Analysis (presented by AB Mohammed and EL Belmont from the University of Wyoming)

# Panels and Miscellaneous Activities

2023 Podcast: SS0E's Blueprint for Equity

2022 University of Portland Pilgrimage to Le Mans, France (the birthplace of the Holy Cross)

2018 Expert Independent Reference for US Permanent Residency

Mohammadhadi Hajilou, PhD Candidate from the University of Wyoming

2018 Panel Invitation (Portland, Oregon)

Oregon Public Broadcasting (OPB) - Science, Technology, and Discovery in the Northwest