## **Casey Gilliams**

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Education			
		lines, Golden, CO	Present
Ihesis - Optimization of Processing, Microstructure, and R. S. Motoriala Science Engine arian Minoria Back		-	lle El Mar 2017
<b>B.S., Materials Science Engineering, Minor in Packa</b> cum laude	iging Sciences	University of Florida, Gainesvi	lle, FL May 2017
Research & Work Experience			
Graduate Student Researcher, ASPPRC, Colorado So Teaching Assistant-ships: MTGN 202-Engineered M 2019, Fall 2020, Spring 2021, Fall 2021),MTGN 549-Curr Development (Spring 2020), MTGN 466-Materials Des	laterials (Fall 201 cent Developmen	7), <b>Physical Metallurgy Lab</b> (S ts In Ferrous Alloys (Spring 2019)	), MTGN 348-Microstructu
<b>Undergraduate Researcher, University of Florida, F</b> <ul> <li>Failure analysis of turbine components. Ronald E. M.</li> </ul>			August 2016 – May 2017 n (May 2016-May 2017)
SwRI UTSR Gas Turbine Industrial Fellowship Prog	ram, Siemens Er	nergy Charlotte, NC	May 2015 – July 2016,
<ul> <li>Undergraduate Researcher, University of Florida, R</li> <li>Learned technical skills applicable to spinal cord, neu incoming undergraduate students. UF-HHMI Scie 2015), Ronald E. McNair Post-Baccalaureate Achieve</li> </ul>	uroscience, and b nce for Life Intra	iomedical research. Responsibl mural Undergraduate Researcl	8
Leadership Experience & Involveme	ent		
<ul><li>Graduate Experience Mentor (GEM)</li><li>Mentored a new graduate student by acting as a kno</li></ul>	wladgaabla rasay	ureo for povigoting life at Mines	Fall 2021
The Minerals, Metals, & Materials Society (TMS) 2021 Student Led Symposium (May 2020 – March 2 Approaches for the Next Generation of Sustainable Mat Steels Committee Member (February 2020 – Prese	terials"		
ASM International Student Board of Trustees (July 2020 – July 2021) - D Modified DomesDay to allow for both an online and in to host virtual professional development workshops for Failure Analysis Society Student Board Member	n-person format. or students. Spok	Worked with the ASM Emerging e on a panel at 2021 ASM Leade	g Professionals Committee
Colorado School of Mines Materials Advantage • Attended Congressional Visit Day (April 2019). Advo			January 2019 – Present 20 Executive Committee
Mines Maker Society, Graduate Student Representa <ul> <li>Graduate student engagement and outreach. Acted</li> </ul>		graduate student community	August 2018 – May 2020
<ul> <li>Bike &amp; Build, Southern United States</li> <li>Cycled over 4,000 miles from Florida to California, r \$174,000 for affordable housing causes. Acted as a m</li> </ul>			May 2017 – July 2017 sing. Our team raised over
<ul> <li>Southern Scholarship Foundation, House President</li> <li>Assisted the House Manager in enforcing house and cooperative living environment</li> </ul>			6; August 2014 – May 2015 5 girls and creating a clean
Publications, Presentations, & Conf TMS 2020: "Influence of Prior Processing on the Respon UF Undergraduate Research Symposium: "Metallic . UF Undergraduate Research Symposium: "Use of Sec Spinal Cord Injury" March 2016 UF McNair Summer Symposium: "Use of Secondary C Cord Injury" August 2015	nse to Quenching Foams for Industi condary Cell Death	rial Gas Turbine (IGT) Applicati h to Quantify Phrenic Motoneuro	on Loss Following a Cervical

UF HHMI CASE: "Phrenic Motoneuron Loss Following Cervical Spinal Cord Injury" January 2015

## Skills

**Metallurgical & Technical:** Metallography, Material characterization (LOM, FESEM, ESEM, XRD, EBSD), Heat treatment, Mechanical testing, Hardness testing, data and error analysis **Computer:** Proficient in Microsoft Excel, PowerPoint, and Word; Experience in Python, LaTeX, MATLAB, DigitizeIt, TableCuve2D