Claire Elizabeth Kincaid

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Education	
Colorado School of Mines, Golden, CO	2019 - 2021
 Masters of Science in Earth Resources Development Engineering 	
• Cumulative GPA: 3.65	
Adviser: Dr. Nicole Smith, Assistant Professor of Mining Engineering, Colorado Sch	
Franklin W. Olin College of Engineering, Needham, MA	2015 - 2019
 Bachelors of Science in Mechanical Engineering Cumulative GPA: 3.67 	
Adviser: Dr. John B. Geddes, Professor of Applied Mathematics, Olin College of Engi	neering
University College Dublin, Dublin, Ireland	Jan – May 2018
 Study Abroad in Earth Sciences and Geotechnical Engineering 	
Cumulative GPA: 3.63	
Program Coordinator: Jamie Wells, Study Abroad Officer, School of Science	
Work Experience	
JDS Mining & Energy: Mining Engineer; Vancouver, BC; Likely, BC; Broomfield, CO	Aug 2023 – Present
Provide short term engineering and operational support to Mt. Polley mine	
 Provide expertise on equipment technology in a variety of mining application 	ons, including wifi, fleet
management, telematics, automation, and battery electric vehicles	
Write and present whitepapers on new technology applications and sustain	ability in mining
Supervisor: Dino Pilotto, VP, JDS Engineering Division	
 Epiroc Rock Drills, AB: Global Applications Specialist, Electrification and Automa Consult on performance of Epiroc machines and technologies in global und 	
 Train development and sales engineers in principles of underground mining 	
 Act as customer proxy in development and strategy meetings for future tech 	nologies
Supervisor: Ashleigh Braddock, VP, Sales and Marketing, Epiroc Digital Solutions	literegree
Valhalla Engineering Group: Mechanical EIT	2020 - 2021
Assist mechanical engineering team in designing and analyzing HVAC and	plumbing systems
 Assist various engineering and architecture teams in drafting and administr 	
Train in project and model management	
Supervisor: Doug Deppey, Director, Mechanical Engineering Group	
Komatsu America Corp: Graduate Applications Engineering Intern (Surface Minir	
 Consult on equipment needs for various customers, reported on productivit Consult on equipment use for customers onsite at various mines in the Sout 	
 Assist test engineers in installing and testing new modifications to equipme 	
Supervisor: J.D. Wientjes, Director, Application Engineering, Surface Mining	in prototypes
Resolution Copper Company: Mining Engineering Intern	May – Aug 2018
Conduct 2018 Joint Analysis Study and investigate tunnel wedging and fact	
Review and logged Magma data to establish baselines for environmental magnetized setablish	
Review 2018 Tunnel Boring Machine state of the industry, reported on busin	
Supervisor: Mark Groulx, Mining Engineering Manager	
TE Connectivity: Product Engineering Intern	May – Aug 2016
• Interface with customers and engineers to solve problems and meet needs o	
 Design and execute experiment for statistical analysis of highspeed manufaction to table as a series of \$527,000 and huginess growth of \$250,000 and 	
 Assist in total cost savings of \$537,000 and business growth of \$250,000, ann Supervisor: Doug Hoffman, Product Engineering Manager 	lually
A Wired Aesthetic: Owner, Operator	2012 - 2020
Mine and Cut gemstones for use in handmade jewelry and art	2012 2020
• Design and fabricate award winning, handmade jewelry and sculpture for s	ale and display
Craduata Pasaarch Experience	
Graduate Research Experience	2019 - 2021
Diversity & Inclusion in the Mining Industry Built upon undergraduate research project in diversity and inclusion in the	
 Built upon undergraduate research project in diversity and inclusion in the Determined the current state of diversity and inclusion in the mining indust 	
 Determined the current state of diversity and inclusion in the mining industry via Determined Diversity & Inclusion best practices in the mining industry via 	
Supervisor: Dr. Nicole Smith, Assistant Professor of Mining Engineering, Colorado S	
SR-Hybrid and Electric Vehicles for Underground Mining	2020 - 2021
Reviewed testing data for several prototype SR-Hybrid and Battery Powere	
 Refined numerical model and created user interface to calculate efficiency, f 	der consumption of prototypes

Undergraduate Research Experience	
Diversity & Inclusion in the Mining Industry	2018 - 2019
 Survey recent academic and corporate literature on diversity & inclusion Survey of current state of diversity & inclusion in the mining industry 	
Supervisor: Dr. Debbie Chachra, Professor of Engineering, Olin College	
The Foundry: Case Study of a New Academic Makerspace	2018 - 2019
 Survey and interview students and faculty involved in the founding of a new makerspace Discuss and analyze conflicting conceptualizations and desired outcomes for the space 	
Analyze strengths and failures of organization and offer potential solutions based on best practice	
Supervisor: Sarah Hendren, Associate Professor, Fine Arts, Design, and Humanities, Olin College Structural Geology and Fault Mapping	Jan – May 2018
Analyzed pictorial dataset of lignite mine near Mavropigi, Greece	jun – Wiuy 2010
 Generated maps and cross sections to create a three-dimensional picture of underlying faults 	
Supervisor: Dr. Tom Manzocchi, Associate Professor of Earth Sciences, University College Dublin Systems Engineering, Communication, and Education	2016 - 2017
Analyzed multiple case study using ethnographic methods –collaboratively develop coding	2010 2017
scheme to identify boundary objects and their effects on communication and decision making	
• Extracted engineering education principles to be applied to the classroom Supervisor: Dr. Alexandra Strong, Assistant Professor of Systems Design and Engineering, Olin College	
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Teaching Experience Colorado School of Mines: Corporate Social Responsibility Teaching Assistant	Jan – May 2020
Evaluate student writing and attendance	<i>jun 1010</i> 2020
Supervisor: Dr. Nicole Smith, Assistant Professor of Mining Engineering	2010 2010
 Olin College of Engineering: Machine Shop Assistant Assist in the cleaning and maintenance of the Olin Machine Shop 	2018 – 2019
Train students in safe use of the Large Project Building and the Olin Blacksmith's Forge	
Supervisor: Dr. Daniela Faas, Director of Fabrication, Professor of Mechanical Engineering Olin College of Engineering: Quantitative Engineering Analysis Teaching Assistant	Sep – Dec 2017
Assist in the application and analysis of advanced mathematical principles to common engineering	,
systems involving circuitry, robotics, computer science, and mechanical design.	-
 Assist in curriculum development & iterative improvement of overall course structure Supervisor: Dr. Paul Ruvolo, Assistant Professor of Computer Science 	
Olin College of Engineering: Multivariable Calculus Teaching Assistant	Sep – Dec 2016
 Supplement class lectures by planning and administering 'mini lectures' Discuss atu dant and also area group dentanding, and analytic provide instructors to assist in 	
 Discuss student and class progress, understanding, and problems with instructors to assist in understanding of teaching effectiveness and areas of importance 	
Supervisor: Dr. Aaron Hoffman, Associate Professor of Mathematics	
Olin College of Engineering: Linear Algebra Teaching Assistant Discuss student and class progress, understanding, and problems with instructors to assist in 	Jan – May 2016
understanding of teaching effectiveness and areas of importance	
Supervisor: Dr. Aaron Hoffman, Associate Professor of Mathematics	
Service	
SME Young Leaders Committee: Member, Class of 2020; Member, Membership Committee	2020 – Present
 Represent interests of Young Leaders in greater SME events and Mining & Exploration Chapter Assist on the membership committee in vetting and selecting new members of the YLC 	
SME Student Chapter, Colorado School of Mines: Graduate Student Member	2019 - 2021
• Assist in various club activities including mineral shows, golf tournaments, and formal events	2010 2021
 SME Student Chapter, Colorado School of Mines: Minerals Education Coalition Chair Organize volunteers for a variety of earth science focused outreach & educational events 	2019 – 2021
 Organize the annual Boy Scout Merit Badge event at Colorado School of Mines 	
 Liaise with the Colorado Section of the MEC for support and alignment WIM Student Chapter, Colorado School of Mines: Graduate Student Representative; Denver Chapter Liaison 	2020 - 2021
 Assist in organizing various club activities including resume reviews, roundtables, etc. 	2020 - 2021
 Liaise with the Denver chapter of WIM for support alignment 	0000 0001
 Graduate Student Government, Colorado School of Mines: Mining Department Representative Represent mining department graduate students to the Graduate Student Government 	2020 - 2021
 Report important information on events, policy changes, funding, etc. to the mining department 	
 Represent graduate students to the mining department faculty and staff meetings 	2010 2020
 Mining Department Seminar Committee: Volunteer Organizer Organize and host speakers for mining department weekly seminar 	2019 – 2020
Mining Department DI&A Committee: Graduate Student Representative	2019 - 2021
Advise and assist in organizing DI&A policies and programming for the mining department	

Presentations & Publications	
"Where to Draw the Line: Scoping Your Green Mining Project"	Feb 2023
1 st Author, Conference Presentation, SME National Conference 2023	100 2020
 "Safety Isn't Only Cell Deep: Updating the Safety Mindset After 10 Years of BEVs Underground" 1st Author, Conference Presentation, SME National Conference 2023 	Feb 2023
"Diversity and Inclusion in Mining: An Analysis of Indicators in Sustainability Reports"	Aux 2021
	Aug 2021
• 1 st Author, Master's Thesis	Amu 2021
"Sustainable Development: Ideas from the next generation of leaders"	Apr 2021
• 1 st Author, Published in April 2021 issue of SME's Mining Engineering Magazine	Feb 2021
"Diversity and Inclusion in Mining: Indicators in Public Sustainability Reporting"	Fe0 2021
• 1 st Author, Conference Presentation, SME National Conference 2021	N
"Women in Mining: Advancing Gender Diversity in Earth Resources"	Nov 2020
1 st Author, Conference Presentation, SWE National Conference 2020 "May First Fine Veers in Industry"	E-1-2020
"My First Five Years in Industry/Academia"	Feb 2020
• 1 st Author, Conference Presentation, YLC, SME National Conference 2020	E 1 2020
"Mining for Talent: Diversity and Inclusion in Mining Today"	Feb 2020
• 1 st Author, Conference Presentation, SME National Conference 2020	E 1 2010
"Increasing Workforce Diversity: A Short Course for Industry Professionals"	Feb 2019
• 1 st Author, Conference Presentation, SME National Conference 2019	D 0010
"Increasing Workforce Diversity: Panel"	Dec 2018
• 2018 IMR Short Course Panel Member	11 0010
"Perspectives on Diversity in Mining"	Nov 2018
• 1 st Author, Published on LinkedIn in advance of 2018 IMR short course	E.1. 2010
"Sending Out the Invitations: Developing Diversity in Mining"	Feb 2018
• 1 st Author, Published in February 2018 issue of SME's Mining Engineering Magazine	E.1. 2017
"Preparing Students for Engineering Design Work Environment: A Study of Practicing Engineers"	Feb 2017
• 2 nd Author, Presented at American Society of Engineering Education annual conference June 20	17
Awards	
WAAIME Scholarship: WAAIME (a Division of SME)	Aug 2020
SWE Presidential Scholarship: Society of Women Engineers	Aug 2020
WIM Scholarship: Women in Mining (a Division of SME)	Aug 2020
SRK Graduate Scholarship: SRK Consulting	Aug 2019
Resource Capital Fund Graduate Fellowship: Resource Capital Fund, Colorado School of Mines	May 2019
Grand Challenge Scholar: NAE GCSP Program, Olin College of Engineering	May 2019
UCD Exchange: University College Dublin, Olin College of Engineering	Oct 2017
Olin Merit Scholarship: Olin College of Engineering	<i>May</i> 2015
Certifications	
Vulcan Essentials and Block Modeling: Maptek Online University; Denver, CO.	Aug 2020
MSHA Underground: Refreshed February 2021; Colorado School of Mines	May 2018
Professional Affiliations	
Colorado School of Mines Alumni Association	May 2021 – Present
Canadian Institute of Mining	Feb 2021 – Present
Society of Women Engineers	Sep 2015 – Present
Society for Mining, Metallurgy, and Exploration	Sep 2017 – Present
Women in Mining	Sep 2018 – Present
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Professional Skills

CAD/CAM: AutoCAD, Civil 3D, Revit, SOLIDWORKS, PDM, ONSHAPE, PTC Creo, FEA/FEM Mining & Scheduling Software: Minesight 3D, Vulcan, SimMine, Shotplus, Drill Manager, PCBC, AmpL Programming: Excel Solver, VBA, MATLAB, Mathematica, LaTeX, Python, R, MiniTab, Arduino C, COMSOL Welding and Machining: MIG, TIG, Oxy/Ace, Manual and CNC Plasma Cutting, Mill, and Lathe, Casting, Forging Woodworking: Table/Chop Saws, Rotary/Belt Sanders, Planer, Routers, CNC Shopbot, Wood Lathe Digital Analysis: Instron, Fischer Box, Sample Preparation, Flat Lap, FTIR, Pycnometer Microscopy: Metallographic Microscope, Petrological Microscope, SEM, EDS Field Evaluation: GPR, Geotechnical Inspection, Drill Program Design, Geological Field Investigation & Mapping Language: Intermediate-Advanced Japanese, Professional Swedish, Fluent English Technical Communication: Presentation, Reporting, Value Analysis, ROI Analysis, Technical Writing Interpersonal: Interdisciplinary and Intercultural Communication, Indirect Management, Collaborative Teaming