

Nicolas Mathews

M.S. STUDENT • CIVIL ENGINEERING

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Education

Oregon State University

Corvallis, OR

M.S. CIVIL ENGINEERING

Expected: June 2018

- Geotechnical engineering emphasis.
- Recipient of the Jerry Yamamuro Endowed Fellowship in Geotechnical Engineering

New Mexico Institute of Mining and Technology

Socorro, NM

B.S. CIVIL ENGINEERING

December 2015

- Cumulative GPA: 3.1 / 4.0

Experience

Oregon State University

Corvallis, OR

GRADUATE RESEARCH ASSISTANT | ADVISOR: DR. BEN LESHCHINSKY

Jun. 2017 - Present

- My research interests include: slope stability, seismic slope stability, and geohazards. I'm currently developing an algorithm that will apply Spencer's method and Newmark's method to generalized failure planes, allowing for more detailed analyses of seismic slope failure.

Oregon State University

Corvallis, OR

GRADUATE TEACHING ASSISTANT | INSTRUCTORS: KENNETH MARTIN (ENGR 211), DR. JACK ISTOK (CCE 102)

Sep. 2017 - Jun. 2017

- Tutored, graded, and occasionally lectured for the following courses:
- FALL 2016: ENGR 211 - Statics
- WINTER 2016: CCE 102 - Problem Solving and Technology
- SPRING 2017: ENGR 211 - Statics

Taos Ski Valley

Taos, NM

GUEST SERVICES | SUPERVISORS: BOB EMMANUELSON, JOHN HEDDEN

Dec. 2015 - Apr. 2016

- Patrolled mountain, assisting guests and ski patrol.

Alcohol Safety Awareness Program (ASAP) at New Mexico Tech

Socorro, NM

STUDENT PROGRAM LEADER | SUPERVISORS: DR. MARY DEZEMBER, MELISSA JARAMILLO-FLEMING

Aug. 2014 - Dec. 2015

- Prepared media for program campaigns.
- Conducted IRB approved focus groups.
- Distributed an IRB approved survey on New Mexico Tech student lifestyles.
- Prepared detailed summaries analyzing the effectiveness of the program.

Campbell Rhea Construction, LLC.

Angel Fire, NM

CARPENTER | SUPERVISOR: JOHN RHEA

May 2013 - Aug. 2015

- Built custom cabinets, furniture, and homes for diverse clients.
- Participated in framing, but focused on trim work and custom carpentry.
- Completed custom pieces and trim work in an award-winning home.

Habitat Management, Inc.

Denver, CO

RECLAMATION TECHNICIAN

May 2012 - Aug. 2012

- Worked on land reclamation projects in the Rocky Mountains.
- Learned about erosion control, PH regulation, and noxious weed management.

Chevron Mining, Inc.

Gallup, NM

ENGINEERING INTERN

May 2010 - Aug. 2011

- Surveyed, processed, and mapped mine reclamation with engineering team.
- Gathered data and performed studies to improve operations efficiency.
- Wrote technical instructions.
- Created an automated excel program to track stockpile volumes.

Technical Skills

ADVANCED

HIGHLY SKILLED

- MATLAB
- Microsoft Excel
- Microsoft Word
- Adobe Photoshop
- Adobe Premiere

INTERMEDIATE

EXPERIENCED

- GeoStudio SLOPE/W
- Web Programming
- Digital Cartography and Geovisualization

NOVICE

LIMITED EXPERIENCE

- Plaxis
- LaTeX
- AutoCAD
- Trimble Survey Equipment and Software

Projects & Leadership

2017	Co-Creator & Team Member , Sea Level Rise Migration Project	Corvallis, OR
2015	Creator , GUI: Bishop's Simplified Method of Slope Stability (MATLAB)	Socorro, NM
2015	Team Captain & Design Manager , ASCE Concrete Canoe Team (New Mexico Tech)	Socorro, NM
2015	Technical Presenter , ASCE Rocky Mountain Regional Conference	Albuquerque, NM
2010-12	President , New Mexico Tech Rock Climbing Club	Socorro, NM
2012	Vice President , New Mexico Tech Biking Club	Socorro, NM
2009	Member , FIRST Robotics: Team 1544 (Bartlett High School)	Anchorage, AK

Certifications & Membership

American Institute for Avalanche Research and Education (AIARE)

LEVEL 1 CERTIFICATION

- Learned how to safely navigate avalanche terrain.
- Learned to assess snow slope stability using: snow pit analysis, weather history, and direct observation.

American Society of Civil Engineers (ASCE)

MEMBER

- Geo-Institute

Volunteer Work

2010-12	Co-Coordinator , Annual Clean-Up: Box Canyon, NM	Socorro, NM
2009	Volunteer Coach , Special Olympics	Anchorage, AK
2009	Peer Facilitator , PACE Program (Bartlett High School)	Anchorage, AK