

Anthony M LeBaron

Résumé

ACADEMIC HISTORY

AUGUST 2011 – PRESENT

Montana State University

PhD, Applied Mechanics

Researched fracture/failure process in bonded granular materials. Microstructural model built from CT scan data with experimental validation. Used discrete element method to model energy release in snow with application to avalanche initiation. Discovered a previously undocumented diffuse failure mode in snow.

JANUARY 2009 – JULY 2011

University of Utah

M.S., Mining Engineering

Modeled and analyzed fragmentation from rock blasting in quarries and mines around Utah.

AUGUST 2004 – MAY 2008

New Mexico Tech

B.S., Mineral Engineering

PUBLICATIONS

- 2016 **Micromechanical Analysis of Energy Release in Snow Fracture**
International Snow Science Workshop, Colorado, USA
- 2014 **An Energy-Based Microstructural Constitutive Model for Fracture in Snow**
International Snow Science Workshop, Alberta, Canada
- 2014 **Measurements of the deformation zone around a split-axis snow micropenetrometer tip**
Cold Regions Science and Technology

SOFTWARE

- PROFICIENT Matlab, Python, YADE, \LaTeX , Bruker CT scan Software Suite, slurm
- BEGINNER LabVIEW, ANSYS, ArcGIS, Bash

EMPLOYMENT

JUNE 2013 – AUGUST 2014

Montana State University

Instructor

Instructor of record for EGEN 125 (Technology, Innovation and Society), EGEN 203 (Statics), and EGEN 201 (Statics)

MAY 2014 – AUGUST 2015

Rickshaw Tony LLC

Pedicab Owner/Operator

Founded pedicab business in Bozeman, MT. Human-powered transportation service. Ran profitably on a "pay what you can" fee structure.

FEB 2011 – JULY 2011

Rio Tinto

Geotechnical Intern

Analyzed stability of mine waste impoundments

COMMUNICATION SKILLS

- | | |
|-------------------|---|
| SPANISH LANGUAGE | Oral: Conversant
Written: Good |
| ADVENTURE WRITING | Sporadic contributor to Adventure Cycling Association blogs |

VOLUNTEER WORK

- 2012-PRESENT **Bozeman Bike Kitchen**
Helped people repair, reuse and donate bicycles at our non-profit to ensure everybody has access to transportation
- 2015-PRESENT **Bozeman Area Bicycle Advisory Board**
Sat on city board to recommend safe bicycle practices throughout Bozeman