



WELCOME STUDENTS !!!!!

Spring 2024

Master of Environmental Management Program
Nicholas School of the Environment - Duke University



ENV872 - ENVIRONMENTAL DATA ANALYSIS (EDA)

Lab 1 - Course Overview and Introductions

Luana Lima | John Fay

Spring 2024

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Agenda



- Instructors and TAs Introductions
- Students Introductions
- Syllabus
 - ▣ Proposed Class Schedule
 - ▣ Course Format and Grading
 - ▣ Resources



Instructor Introduction

Luana Lima

A Little About Myself and Education

Born in Rio de Janeiro, Brazil



1994



But I grew up in
Itajubá, MG



A Little About Myself and Education



2007



- Bachelor of Science, Electrical Engineering

FEDERAL UNIVERSITY OF ITAJUBÁ, Brazil, 2005

Electrical Power Systems



- Master of Science, Electrical Engineering

FEDERAL UNIVERSITY OF ITAJUBÁ, Brazil, 2007

*Invested Cost Related Price for Transmission Use:
Drawbacks and Improvements in Brazil*



- Ph.D., Operations Research and Industrial Engineering

UNIVERSITY OF TEXAS, Austin, TX, 2011

*Modeling and Forecast of Brazilian Reservoir Inflows
via Dynamic Linear Models under Climate Change
Scenarios*



A Little About Myself and Education



- Lived in Austin for 4.5 years
- Got married in 2008



2011



- Back in Itajubá as a Pos-Doc and worked as consultant for MC&E
- Got an assistant professor position at UNIFEI
- Decided I needed a TA home, this is my daughter Clara (11 yrs)



A Little About Myself and my Education



- Lived there for 4 years
- And then...

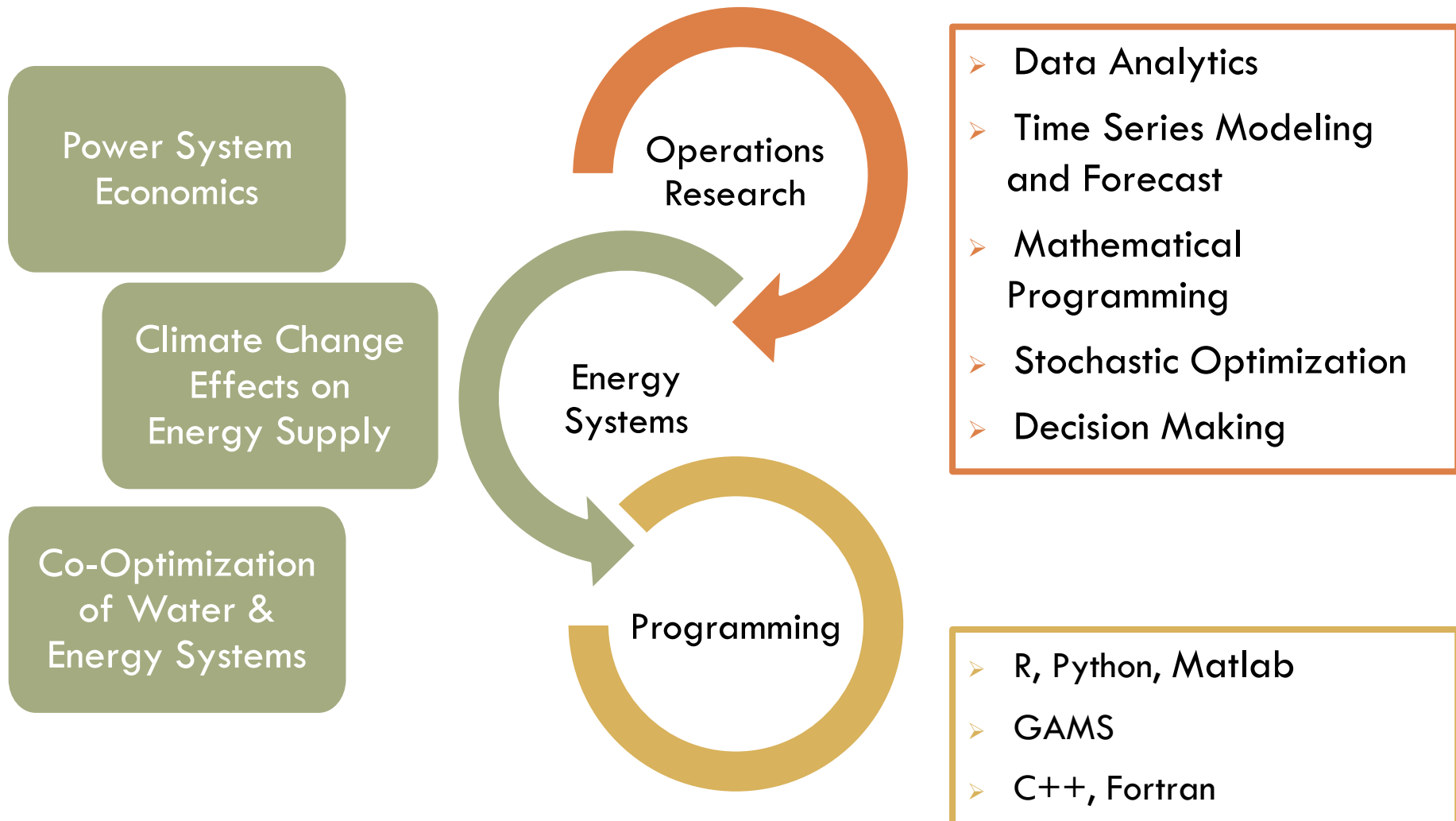
2015



- Back in the U.S., this time North Carolina
- Had my second TA, my son Lucas (7 yrs)
- Joined NSOE in Jan 2018



My Teaching & Research Experience





Instructor Introduction

John Fay

Introductions

1990 BA Biology & Environmental Studies

Bowdoin

MSc Conservation Biology &
Ecosystems Management



2000 GIS Manager at Stanford's Jasper Ridge Biological Station
GIS Manager at Stanford's Ctr. for Conservation Biology



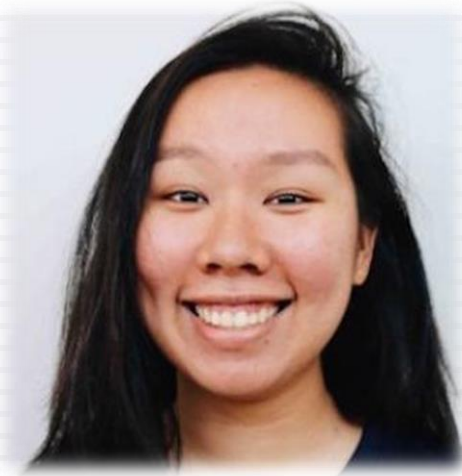
2005 Research associate/Instructor at NSOE



TAs Introduction

Li Gia Go

Emma Kaufman



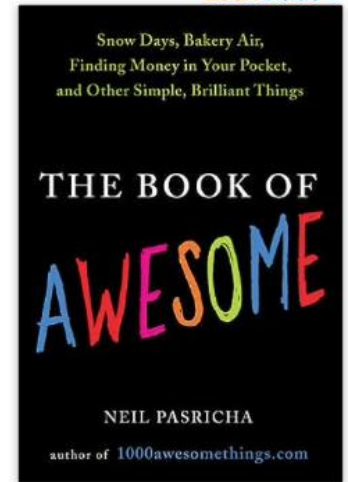


Student Introductions

Students Intro + Activity

The Book of Awesome by Neil Pasricha is filled with simple, everyday pleasures that bring joy and positivity to our lives

- ❑ Popping bubble wrap
- ❑ The smell of rain on a hot sidewalk
- ❑ The other side of the pillow
- ❑ Hitting a bunch of green lights in a row
- ❑ Waking up and realizing it's Saturday
- ❑ When the cashier opens a new lane at the grocery store
- ❑ The moment at a concert after the lights go out and before the band comes on stage
- ❑ When you're really tired and about to fall asleep and someone throws a blanket on you
- ❑ Finding an old mix tape
- ❑ High-fiving babies
- ❑ Snow days

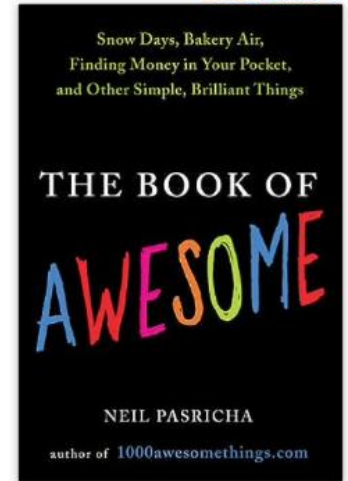


Students Intro + Activity

□ Activity:

"Discovering Common Awesome Moments"

- In small groups (2-3) introduce yourselves and identify **one or more common awesome moments** you have experienced
- Groups introduce themselves to the rest of the class and **one representative from each small group will share** the common awesome moments their group discovered





Course Overview

Class logistics

- Sakai & Class web site: <https://env872.github.io>

- GitHub site

Assignments downloaded from Git but submitted via Sakai
(knitted pdf)

- Syllabus/Course overview

- Lesson 1...

- ▣ Class set up: Where to execute R code?

- NSOE Machine, RStudio container, personal machine?

- ▣ Intro to Git & GitHub:

- Fork & clone the class repository

- ▣ Watch 1st lecture: “Intro to Data Analytics”

- What is it? Data types? Intro to RStudio

For next week...

- Module 0: “Class setup”

- Sign up to Slack site
- Setup GitHub account & class repository
- Set up Class workspace/Rstudio

} Recordings available...

- Module 1: “Intro to Data Analytics”

- Watch recorded lecture...
- Do assignment 1 ...

→ *Get all questions/tech issues resolved ...*

For the following week...

- Ensure all tech issues have been addressed
- Complete Assignment 1 by EOD Wednesday 1/17
- Watch recordings for M2 “Coding Basics”
 - ▣ Q&A on recordings & in-class exercises next Thursday
 - ▣ Assignment 2 will be released EOD Thurs & **due following Tues**



THANK YOU !

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