## How Neuroscience & Wellesley Shaped My Career in Emergency Medicine

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Chief Resident, Harvard Affiliated Emergency Medicine Residency Brigham and Women's Hospital & Massachusetts General Hospital







#### Outline

- My journey at Wellesley College
- How Neuroscience Major shaped my career
- My current work
- Lessons learned at Wellesley College and Beyond

#### Timeline

1988-1999: South Korea

1999-2006: Los Angeles, California

2006-2010: Wellesley College

Neuroscience Major and Women's and Gender Studies Minor

2010-2011: University of Cambridge, UK

Master in Philosophy (MPhil), Public Health - Wellesley Knafel Fellow

2011-2016: Harvard Medical School

Medical Degree (MD)

2014-2016: Harvard Kennedy School of Government

Master's degree in Public Policy (MPP)

2016-now: Harvard Affiliated Emergency Medicine Residency

Chief Resident (2019-2020)

July 2020: Brigham and Women's Hospital

Attending physician in Emergency Medicine, Harvard Medical School Director of Behavioral Health, Department of Emergency Medicine

# Choosing a Major

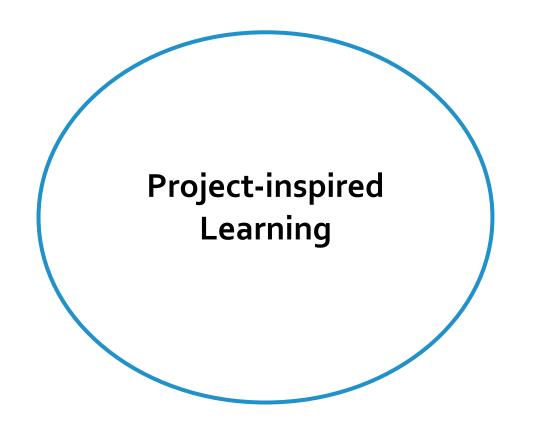
- Pre-med
- Biology vs Neuroscience vs Biochemistry?
- What's more applicable?

# BISC 110 with Prof. Tetel

Fall 2006



#### Neuroscience Major



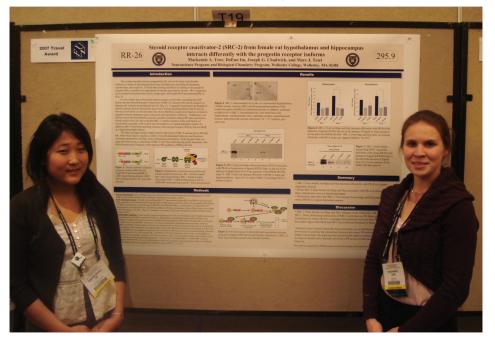
#### Project: Bench Science

#### Tetel Lab 2006



#### Project: Bench Science

Fall 2007



Summer 2018



Published in final edited form as:

Neuroscience. 2010 September 1; 169(3): 1017–1028. doi:10.1016/j.neuroscience.2010.05.053.

#### Steroid Receptor Coactivator-2 Expression in Brain and Physical Associations with Steroid Receptors

Mackensie A. Yore<sup>1</sup>, DaEun Im<sup>1</sup>, Lena K. Webb<sup>2,\*</sup>, Yingxin Zhao<sup>3</sup>, Joseph G. Chadwick Jr. <sup>1</sup>, Heather A. Molenda-Figueira<sup>4,\*\*</sup>, Sigmund J. Haidacher<sup>3</sup>, Larry Denner<sup>3</sup>, and Marc J. Tetel<sup>1,4</sup>

<sup>&</sup>lt;sup>1</sup> Neuroscience Program, Wellesley College, Wellesley, MA 02481

#### Project: Service

### Helping Hands for ALS (Amyotrophic Lateral Sclerosis aka Lou Gehrig's Disease)



#### Project: Global Health

#### Projecto Doctoritas - El Triunfo, Guatemala



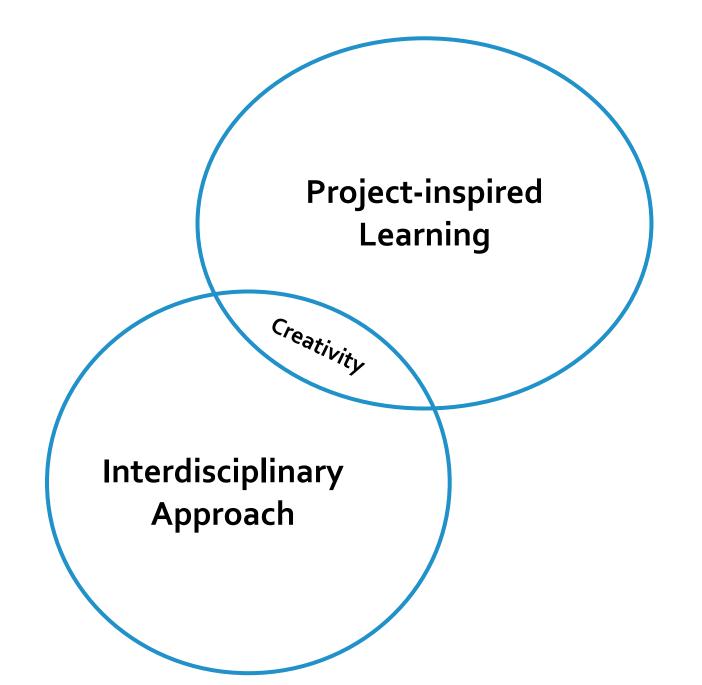


#### Project: Global Health

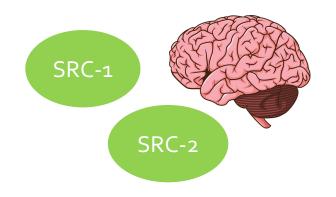
#### Proyecto Doctoritas - El Triunfo, Guatemala



Neuroscience Major



PR-A Tag



#### Interdisciplinary Approach

#### **Neuroscience Senior Thesis Project:**

Understanding hormone action in the brain: interactions between mouse progestin receptor subtypes and steroid receptor coactivators

**Neuroscience**Professor Marc Tetel



**Biology**Professor Jennifer Hood-DeGrenier



**Biochemistry**Professor Didem Vardar-Ulu



#### Interdisciplinary Approach

**eNeuro** 

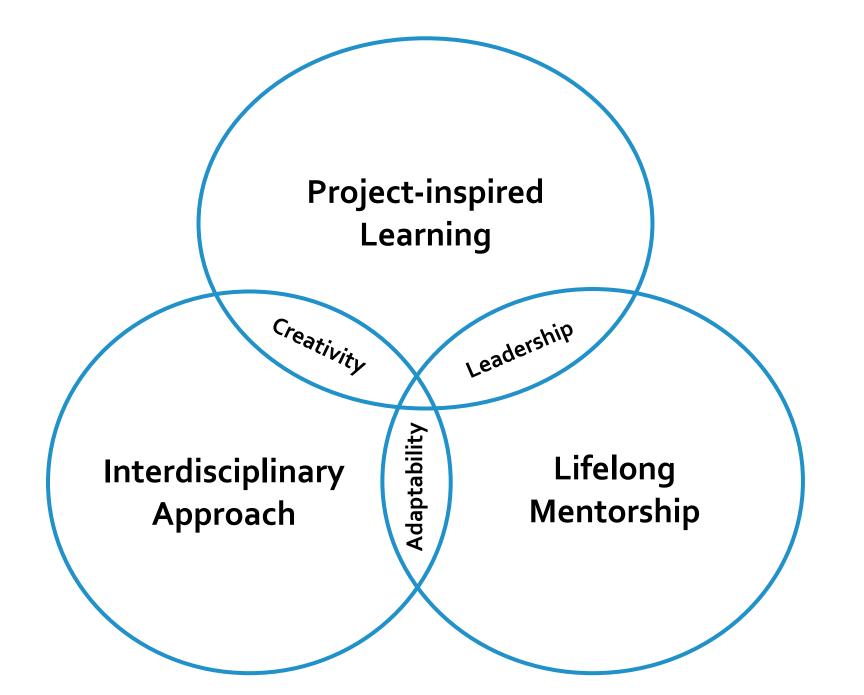
New Research

Integrative Systems

The Progestin Receptor Interactome in the Female Mouse Hypothalamus: Interactions with Synaptic Proteins Are Isoform Specific and Ligand Dependent

<sup>®</sup>Kalpana D. Acharya,<sup>1</sup> Sabin A. Nettles,<sup>1</sup> Katherine J. Sellers,<sup>2</sup> Dana D. Im,<sup>1</sup> <sup>®</sup>Moriah Harling,<sup>1</sup> Cassandra Pattanayak,<sup>3</sup> <sup>®</sup>Didem Vardar-Ulu,<sup>4</sup> Cheryl F. Lichti,<sup>5</sup> Shixia Huang,<sup>6</sup> Dean P. Edwards,<sup>6</sup> <sup>®</sup>Deepak P. Srivastava,<sup>2</sup> Larry Denner,<sup>7</sup> and <sup>®</sup>Marc J. Tetel<sup>1</sup>

#### Neuroscience Major



#### Lifelong Mentorship

#### Topsfield, MA – May 2016



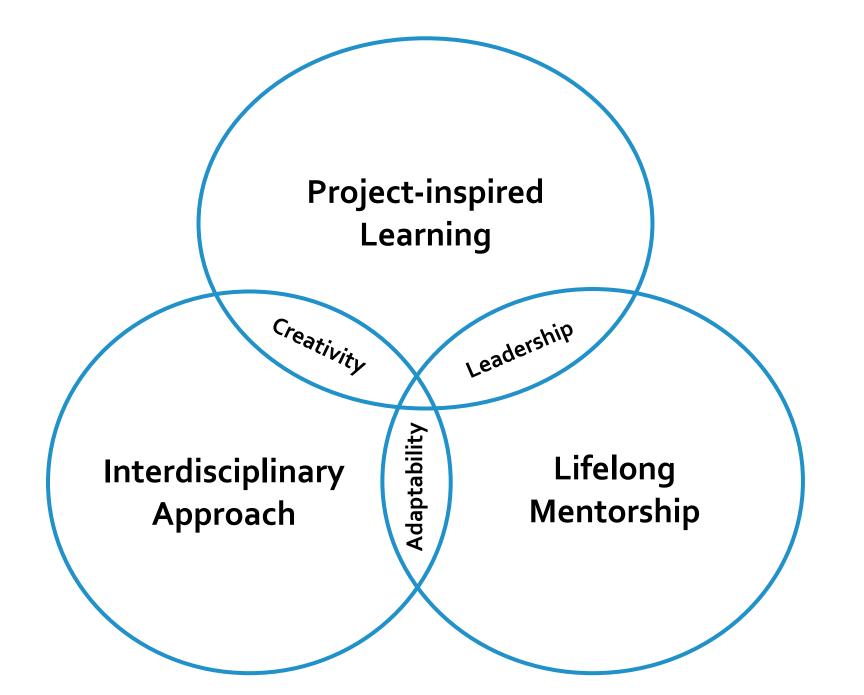
#### Lifelong Mentorship

#### El Triunfo, Guatemala – Summer 2010





#### Neuroscience Major



#### Life After Wellesley

1988-1999: South Korea

1999-2006: Los Angeles, California

2006-2010: Wellesley College

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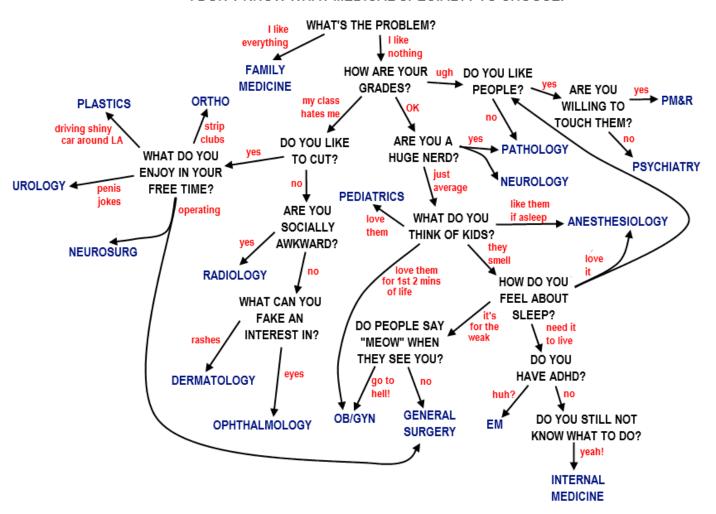
Chief Resident (2019-2020)

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# Choosing a Specialty

#### I DON'T KNOW WHAT MEDICAL SPECIALTY TO CHOOSE!













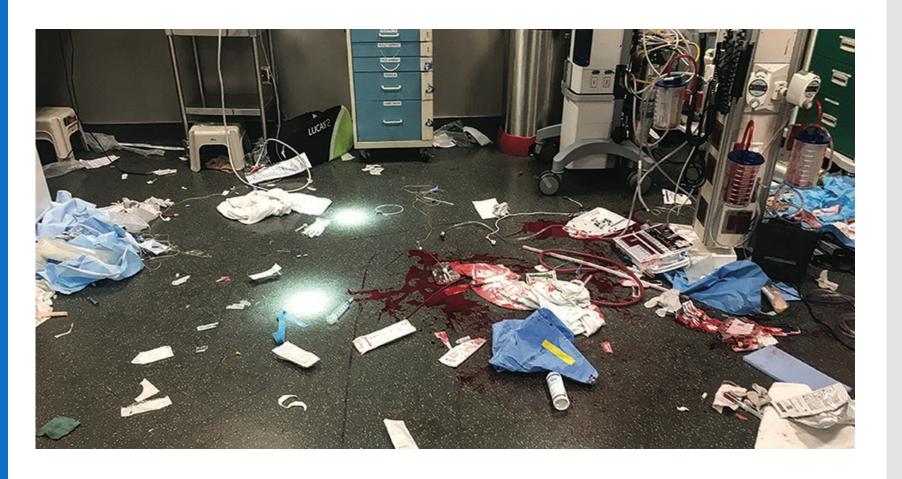


Photo Credit: Chris Bennett, MD









#### Behavioral Health in Emergency Medicine

News > Medscape Medical News > Conference News > American College of Emergency Physicians (ACEP) 2016 Scientific Assembly

#### **Emergency Departments a 'Dumping Ground' for Psych Patients**

Marlene Busko

October 28, 2016

FIRST OPINION

Mental health patients, with nowhere else to go, are overwhelming emergency departments

By ANNE ZINK / OCTOBER 18, 2018

DARREN MCCOLLESTER/GETTY IMAGES



Modern January 28, 2019 12:00 AM **Emergency rooms fill up with psych patients** - and then they wait

ERs 'flooded' with mentally ill patients with no place else to turn

Updated 9:45 PM ET, Fri January 4, 2019

#### Behavioral Health in Emergency Medicine

#### **Behavioral Health Observation Unit**



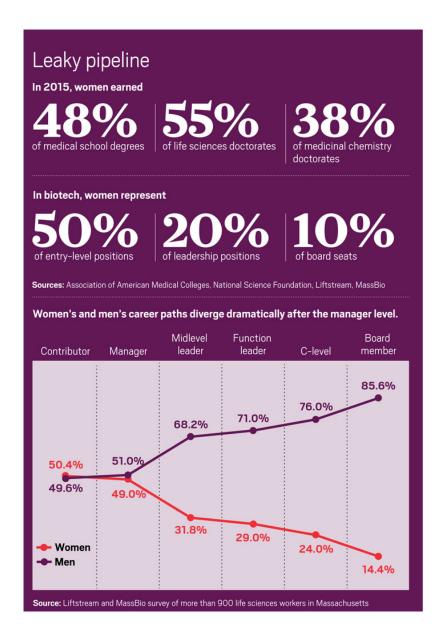


Quality and Care

safety of care

Protocol-based care to improve efficiency

Women in Emergency Medicine

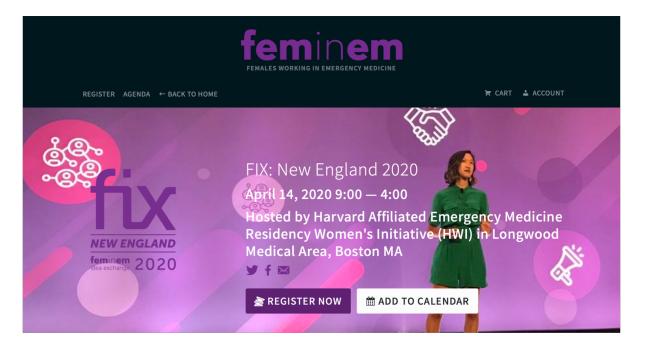


- 28% of emergency medicine physicians are women
- 17% of women emergency medicine physicians are associate or full professors
- 11% of academic department chair positions in emergency medicine are held by women

# Women in Emergency Medicine







# Neuroscience Major & Emergency Medicine

#### ORIGINAL RESEARCH

#### Emergency Department Clinicians' Attitudes Toward Opioid Use Disorder and Emergency Department-initiated Buprenorphine Treatment: A Mixed-Methods Study

Dana D. Im, MD, MPP\*†
Anita Chary, MD, PhD\*†
Anna L. Condella, MD\*†
Hurnan Vongsachang, MD, MPH\*
Lucas C. Carlson, MD, MPH\*†
Lara Vogel, MD, MBA\*†
Alister Martin, MD, MPP\*†
Nathan Kunzler, MD\*†
Margaret Samuels-Kalow, MD, MSHP\*

Behavioral Health +

**Emergency Medicine** 

Psychiatry

Pharmacy

**Finance** 

management

Data scientists

**Emergency Medicine** 

Social work and case/

- \*Massachusetts General Hospital, Department of Emergency Medicine, Boston, Massachusetts
- <sup>†</sup>Brigham and Women's Hospital, Department of Emergency Medicine, Boston, Massachusetts
- <sup>1</sup>University of Southern California, Keck School of Medicine, Department of Emergency Medicine, Los Angeles, California

#### Project-inspired

#### **Other Projects:**

- Virtual windows in the ED
- Protocol development for managing agitation in the ED
- Qualitative interviews to understand patient experience of care in the ED
- Quality metrics for ED care of psychiatric emergencies



Interdisciplinary Approach

Lifelong Mentorship















#### Reflections

- 1. Apply, apply, apply
- 2. Build your narrative
- 3. Nothing is linear
- 4. Find your niche

#### Reflection 1:

# Apply, apply, apply.

#### Wellesley College: ~\$79,000

- Center for Work and Service, summer/winter internship/trip stipends
- Susan Rappaport Knafel '52 Scholarship for Foreign Study
- Places I visited with grants from Wellesley: Guatemala (three times), Israel, Mexico (twice), UK (for one year), San Diego, San Francisco

#### After Wellesley College: ~\$143,000

- University of Cambridge Oversees Scholar (Master's in Philosophy Degree in Public Health)
- Soros Fellowship for New Americans (Medical Degree)
- Harvard Kennedy School, Center for Public Leadership, Gleitsman Fellowship (Master's Degree in Public Policy)
- Harvard Medical School Center for Primary Care Fellowship (Master's Degree in Public Policy)
- Albert Schweitzer Fellowship

#### Reflection 2:

Build your narrative.



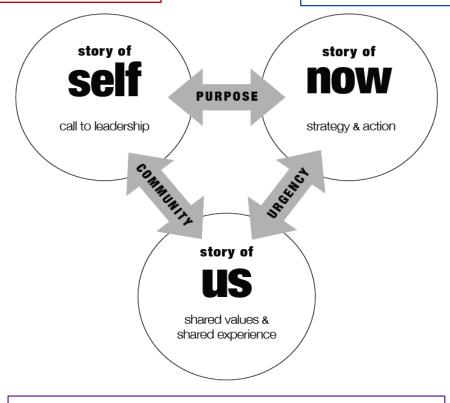
Marshall Ganz: Public Narrative: Story of Self, Us, and Now

Exercise of leadership by motivating others to join you in action on behalf of a shared purpose

#### Reflection 2:

Build your narrative. Personal stories of challenges you have faced, choices you have made, and what you learned from the outcomes

Urgency based on your story; what needs to happen? What shared values are threatened and what actions do we need to take?

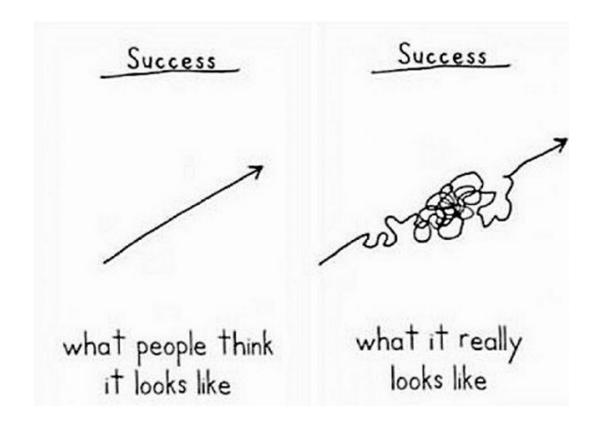


How to move "us" to join you in action on behalf of a shared purpose

Credit: Professor Marshall Ganz

#### Reflection 3:

# Nothing is linear.



- Your narrative will (inevitably) change
- Be flexible

#### Reflection 4:

Find your niche.

- 1. Try out a lot of stuff
- 2. Follow your passion
- 3. Become an expert
- 4. Advertise your expertise