**ASTR/PHYS Professional** Development **CAREERS IN INDUSTRY** & AEROSPACE Join alums and other experts from these career paths. Join alums and other expensition mese career pains How can ASTR & PHYS majors find careers in these areas? What positions are you most qualified for? Wednesday, March 13th FREE PIZZA 5:00-6:00pm **DUANE G130** 

Careers in Industry & Aerospace 13 March 2024, 5-6pm

Opening remarks: Nick Schneider & Mike Dubson

Panelists

- Kevin Loeffler, PHYS alum, Lockheed Martin
- April Olsen, ASTR alum and BAE Space & Mission Systems (formerly Ball Aerospace)
- Stacey Rugenski, ASTR alum; Carma, Inc and Level 3

APS/PHYS Professional Development

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https://www.colorado.edu/aps/undergraduate-studies/professional-development

#### **Astrophysical & Planetary Sciences**

COLLEGE OF ARTS AND SCIENCES

A Our Department Equity Events Research G

earch Graduate Studies

**Undergraduate Studies** 

Home > Undergraduate Studies > Professional Development

### **Professional Development**

APS/PHYS Professional Development is a resource for undergrads in fields related to physics and astronomy at CU Boulder. This website includes resources and information designed to help undergraduates in APS/Physics develop successful longterm careers. This website is designed to offer resources and advice that will help you succeed in your career after graduating CU Boulder. Navigate with the following main sections:

Events for Academic Year 2023-2024

9 October, Grad school: recording, slides, flyer

30 October, Getting involved in Physics research: recording, flyer

13 November, Careers in Heliophysics: recording, slides, flyer

5 December, Undergraduate Research Opportunities Symposium recording, slides, flyer

7 February, Careers in Telescopes, Optics and Observatories: recording, slides

Note: All recordings can also be found here



Upcoming ASTR/PHYS Professional Development Events All in <u>G130, 5-6pm, Wednesdays</u> – with pizza!

3 April: Careers in Startups
17 April: Applying for Jobs

ASTR/PHYS students: read your weekly emails! Everyone: check our departmental websites: <u>https://www.colorado.edu/aps</u> <u>https://www.colorado.edu/physics</u>



APS/PHYS Graduates - where are they now? (Industry & Aerospace positions)

- Aerospace: Ball, LM, Blue Canyon, Maxar, Blue Origin, Northrup Grumman, Sierra Space, KSAT
- Tech Sector: Quantinuum, RAND, Honeybee Robotics, L3 Harris, Meta, SciTec

# **Stacey Rugenski**

## Platform Adoption Manager at Carma, Inc.

What's a Platform Adoption Manager?

My job is to ensure user adoption of our software platform •

### How?

- Working with operations, software development, & customers
- Low-code updates to the software, supporting dev
- Designing digital training content
- Giving live Instructor Led Training sessions

Astronomy to Software Adoption?

- Coding background Critical Thinking •
- Learning Assistant 
   Problem Solving

- **Technical Writing**
- Organization



# **Stacey Rugenski**

**My Journey Post-APS** 

Transition

Observatory Assistant & Grader

Professional

- Medical office assistant 1 year
  - Small business. Sales (PEMF), calls, customers, graphic design
- · Level 3 Communications 4 years
  - Big Corporate. Informal trainer, ticket monkey, bad culture
  - Skills: investigation, troubleshooting, "multi-tasking", communication
- Carma, Inc. 6 years
  - Startup. "Poached" for a vision to resolve big telecom troubles
  - Made a specialized role for myself as the business grew and evolved



# Stacey Rugenski

### **My Advice**

Persistence

- Job hunt is a full time job
- · What motivates you
- Practice interviews
- Network: know people

#### Know your worth

- · Don't undersell yourself
- Be realistic
- Leverage every skill including hobbies
- Make a place for yourself
  - Be careful of "above and beyond"
  - Communicate with leadership
  - Never stop learning



# Kevin Loeffler Cyber R&D Engineer at Lockheed Martin Space

What's a Cyber R&D Engineer?

- Software development
- Reverse engineering
- Threat assessment

PHYS to Cyber

- Problem solving
- Machining, electronics, software skills
- Research
- Literature reviews





# Kevin Loeffler Life at Lockheed Martin

Highlights

- Tuition reimbursement
- Conferences
- Talent development programs
  - Rising Technical Talent (RTT)
  - Engineering Leadership Development Program (ELDP)

### **Common Misconceptions**

- Getting/Retaining a Clearance
- Technology stack
- Culture



## **April Olson** Systems Engineer at BAE Systems SMS

My path at BAE Systems SMS...



- Supply Chain Quality Engineer, Supply Chain Risk Management, Supply Chain Cybersecurity
- Systems Engineering: "Design, integrate, and manage 'systems'"
- New Business Program Capture Management

# April Olson

Applying to Industry



- You are your #1 advocate speak up for yourself and be confident!
- If you feel like you don't quite meet all the qualifications for a position, apply anyways. Worst case - they say no.
- Feeling discouraged is normal (at least it was for me) but keep going!
- It's hard. Don't give up or feel too bad about being rejected for a position.
- Your resume should be ~1 page long and relate to the applied-to job.
- No job is permanent, but also ask in the hiring process what is the path to advancement.
- Be patient. Many things in the hiring process are very slow.