# Life after a Path-to-Professorship Fellow: Year #1 as Assistant Professor in Chemistry

### **NSF Informational Video** May 2, 2018



National Science Foundation



Partnership for Research and Education in Materials





# Advantages of the Path to Professorship Fellowship

#### **Essentially vital for preparation for academia**

- Main Goal was to help me in landing an academic job
  - Professional Development
  - Outreach/Service
  - Teaching
  - Research



# **Professional Delevopment**

# PtP Program: Trifold Training Outreach Education Research





## PtP (Path to Professorship): IDP

Ultimate Goal: Tenure-track Faculty Position at Teaching/Research University

#### **Requisite Short-Term Goals:**

- Define Independent Research Area
- Increase1<sup>st</sup> Author Publications
- Grant-writing Training
- Build Professional Reputation
- Increase Competitiveness
- Improve Scientific Knowledge
- Application Preparation/Interviewing
- Development the academic culture

#### **Strategy:**

- Foster Research Relationship with Collaborative Universities
- Attend Scientific Conferences/Workshops
- Time Management
  - Improved Reading Habits
- Postdoctoral editor for a chemistry journal
- Online Resources (Classes)

#### **Completed Activity**

- Biomedical Science Careers
  Program- Advisor
- Professional Training-Conversing Science to Informal Audiences (*Virginia Beach Aquarium*)
- XSEDE New User Training-Hampton University
- Future Faculty Workshop- UDel
- NRMNetwork-*Mentee*

Progress to Date Future Events

#### while in program

- NOBCChE Conference
- PREM Retreat/PREM Director's
- QEM Workshop
- SREB Institute on Teaching and Mentoring
- MRS Fall Meeting
- HU Professor Mentoring Program
- Publish by end of the year



#### Photoswitchable Arylazopyrazole-Based Ruthenium(II) Arene Complexes



# **Outreach and Service**



#### Work with Hampton Undergraduates















# Research



### **PREM Fellows**







#### **Research Team**



## **Teaching Experience**





#### **Exploiting Photonic Energy**

**Ambition:** 

**"Photo-Controlled** 





#### Project 1:

# **Red-Shifted Heteroazoarene Molecular Photoswitches:** *Synthetically accessing "exo" azo cyclic coordination for NIR functionality*



## Need for Strategic "Exo" Coordination



#### **Project 2: Photo-Controlled Remote C-H Functionalization**



#### **Envisioned Templates**





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