

# 2018 UNM NSF CAREER Proposal Workshop

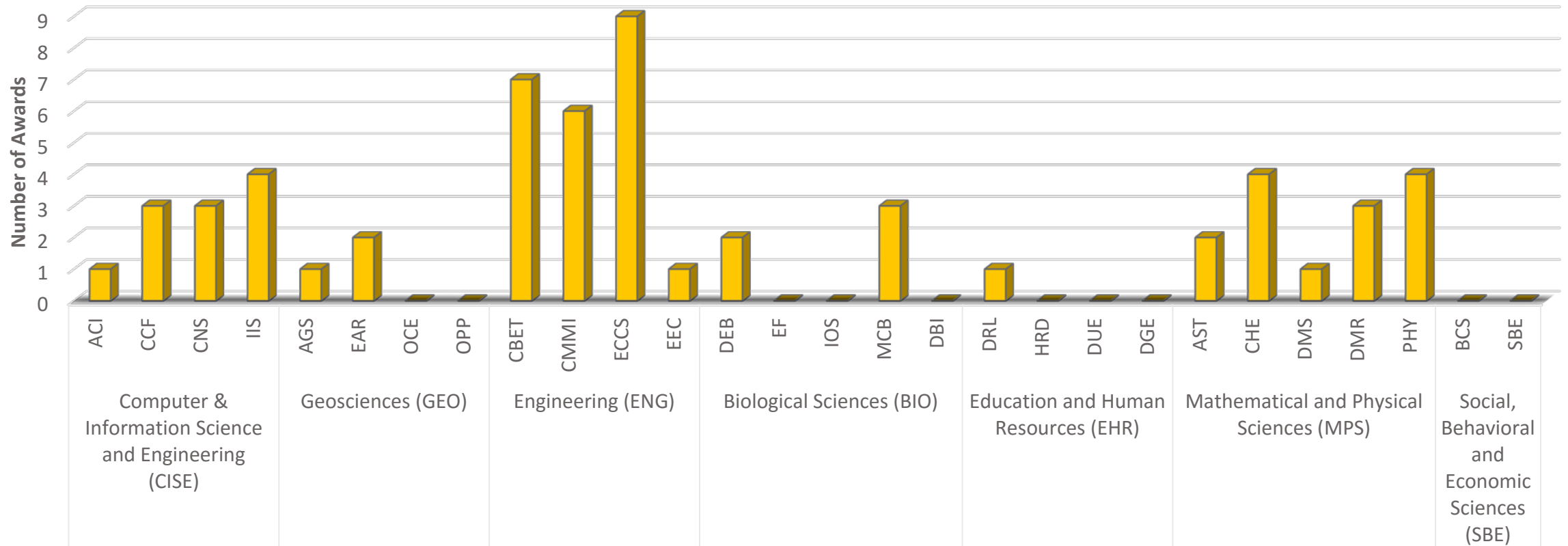
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FACULTY RESEARCH DEVELOPMENT OFFICE

# UNM CAREER Success

57 projects have been awarded to UNM since 1995

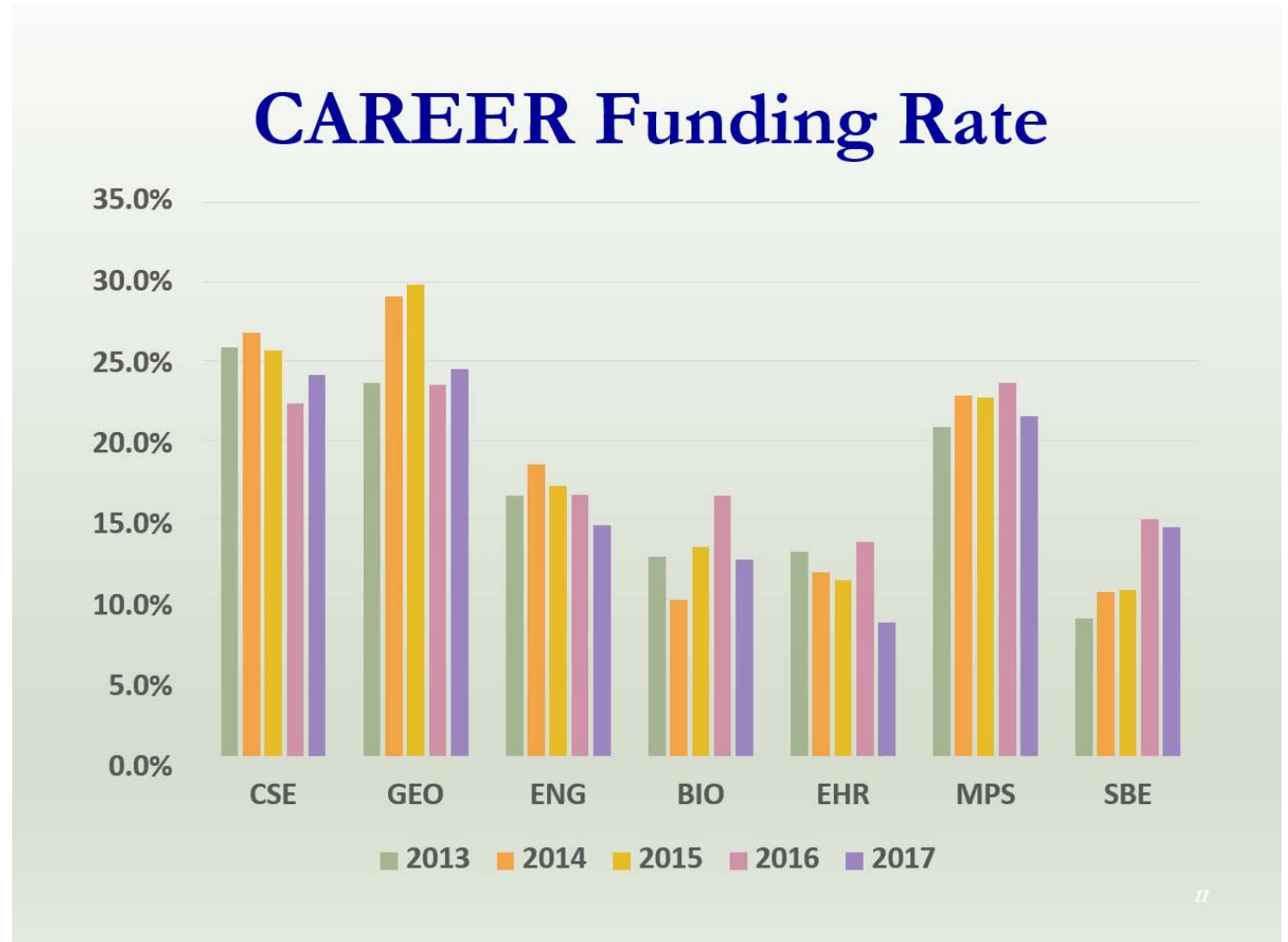
## NSF CAREER Awards at UNM since 1995



# 2017 CAREER Funding Rate

- CISE – 24.0%
- GEO – 24.5%
- ENG – 14.5%
- BIO – 12.0%
- EHR – 8.5%
- MPS – 22.0%
- SBE – 14.5%

*Average funding rate – 17.14%*



# Rob Miller, Professor of Biology

- CAREER PI 1996
- NSF BIO Program Director 2007-08
- NSF Deputy Division Director 2015-2017
  - Acting Division Director most of the time
- Reviewer service, lots
- Panel service, numerous

# Some advice

- Propose an Education Plan that you would want to do.
  - Would you do it even without the CAREER?
  - Don't saddle yourself with something you don't want to do just because it sounds cool.
- Is there necessary support for the plan?
  - Chair's letter, institutional awareness and support
  - Are financial needs in your budget?

# Some advice

- Take advantage of your local setting
  - Hispanic/Minority Serving Institution
  - Southwestern US
  - Institutional Strengths
- Your own experiences
  - Tell the Reviewers and Program Officers why you want to do this
  - What need to you see?

# Some advice

- An Education Plan doesn't have to be novel to be successful
  - BUT it is a highly competitive program
  - Taking advantage of existing education/outreach programs that are effective works
- The Science still matters (A LOT)
  - Integration is desirable
  - But a great education plan won't compensate for science the NSF program doesn't prioritize for support.

# Pay attention

- To what NSF is prioritizing
- The [Ten Big Ideas](#)
  - They matter
  - Demonstrate that you are paying attention
- How does what you are doing relate?



# Arash Mafi

Director of Center for High Technology Materials (CHTM)  
Associate Professor of Physics & Astronomy

# NSF CAREER Proposal Writing Tips

- There's no secret formula! Just do your best.
- Attend an NSF Review Panel
  - Contact your program manager, tell them you are a new faculty, and ask them to invite you to a panel.
- Balance between the technical and educational parts?
  - You need to be very strong on the technical part.
  - You need to be at least adequate on education and outreach (try excel in this part as well).
- Innovation in education!
  - Occasionally you find panels that reject your proposal if they find your education/outreach too ordinary and not innovative.
  - Have at least one prominent innovative component.

# NSF CAREER Proposal Writing Tips

- My proposal: 3 pages introduction, 9 pages technical, 3 pages education/outreach
- Don't forget the Assessment, especially in education.
- Collaboration letters are OK! Make sure to maintain your independence.
  - You need to **clearly state** that you can do it **all** independently, even if you collaboration does not materialize.
- Don't get too technical.
  - Most people on the panel are NOT experts in your area.
  - Don't dumb it down too much.
- Make sure a senior colleague reviews your proposal.
  - Only someone who has a strong NSF track record.
  - Carefully listen to their advice (make your own judgment).

# NSF CAREER Proposal Writing Tips

NSF CAREER Proposal Writing Tips



All News Videos Images Shopping More Settings Tools

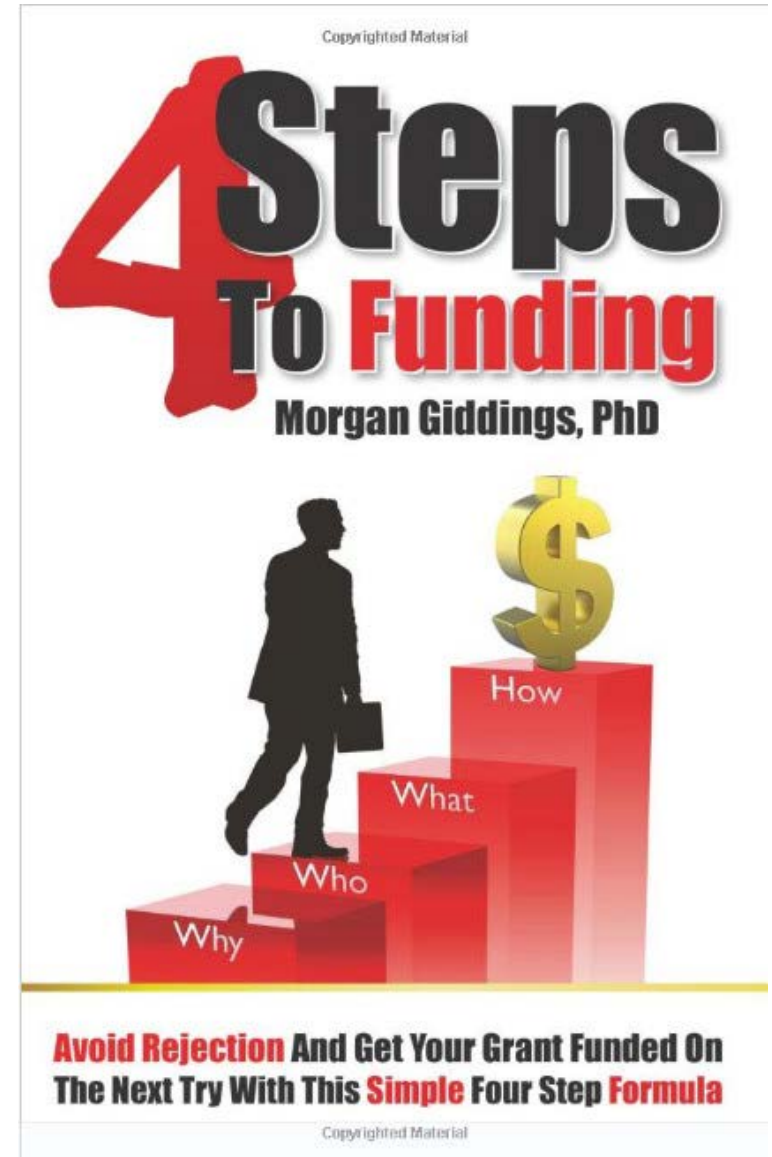
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## NSF CAREER Proposal Writing Tips - Columbia Center for Teaching ...

<https://ctl.columbia.edu/ctl2/.../NSF-Career-Award-Writing-Tips-2211ro6-1oqiqnn.pdf>

by ZJ Pei - 2007

Preface. The main purpose of this book is to provide some **tips** to the assistant professors who plan to **write their NSF CAREER proposals**. The idea of editing this book originated during a conversation with Dr. George Hazelrigg. (program director at **National Science Foundation**) when I visited him late November. 2006.





THE UNIVERSITY OF  
NEW MEXICO®

# Trilce Estrada

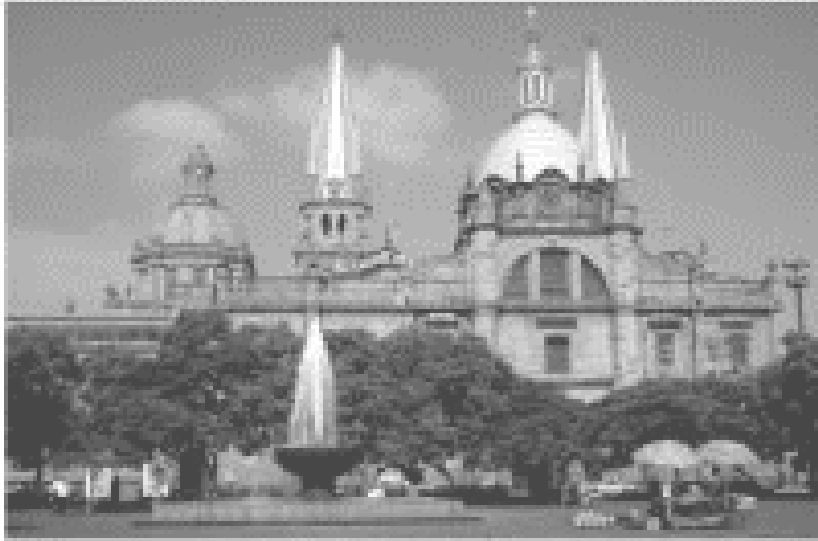
Assistant Professor

Department of Computer Science

University of New Mexico

<http://cs.unm.edu/~estrada>

# My Background



BS in Informatics  
from Universidad de  
Guadalajara,  
Mexico

MS in Computer  
Science from  
INAOE, Mexico

PhD from University  
of Delaware

# My Research



In-situ analysis, distributed learning, and data representation  
for scientific and medical applications

Started this journey at the 2009 CRA-W Workshop on  
Career Planning

First time I heard of the CAREER, but what I heard  
was important:

- It is not just about one project, it is about your research program
- Teaching and research are both important, make sure to integrate them as best as possible



2009  **CRAW Career workshop**  
CAREER?

Nov, 2012  **Supercomputing**  
Work exposure



**SC12**  
Salt Lake City, Utah

Participated at the SC12 Broader engagement program

Years later this would be important

2009

**CRAW Career workshop**

CAREER?

Nov, 2012

**Supercomputing**

Work exposure

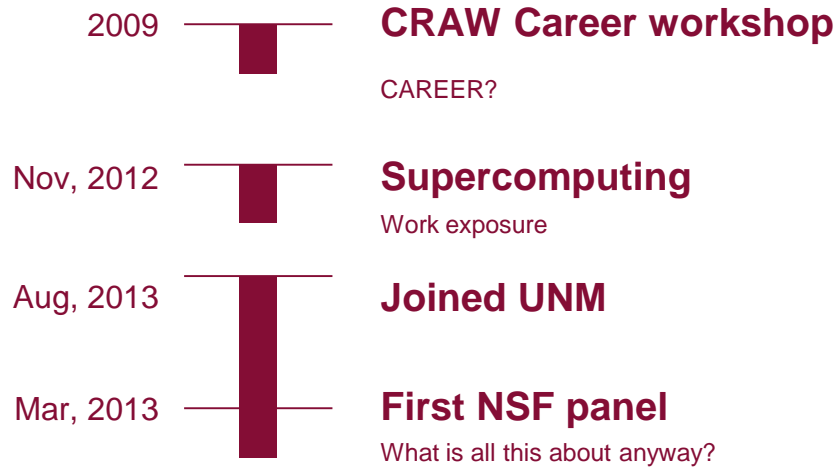
Aug, 2013

**Joined UNM**

## Joined UNM

- UNM is a Carnegie R1 and HSI/MSI
- 55.7% of the undergraduate students are from ethnic minority groups
- Privileged closeness to SNL and LANL

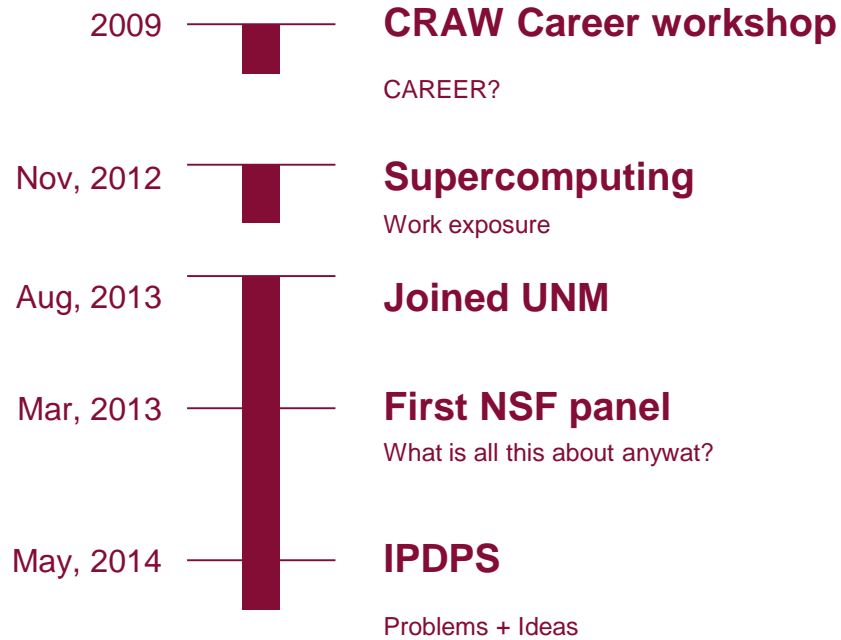




## Participated at my first NSF panel

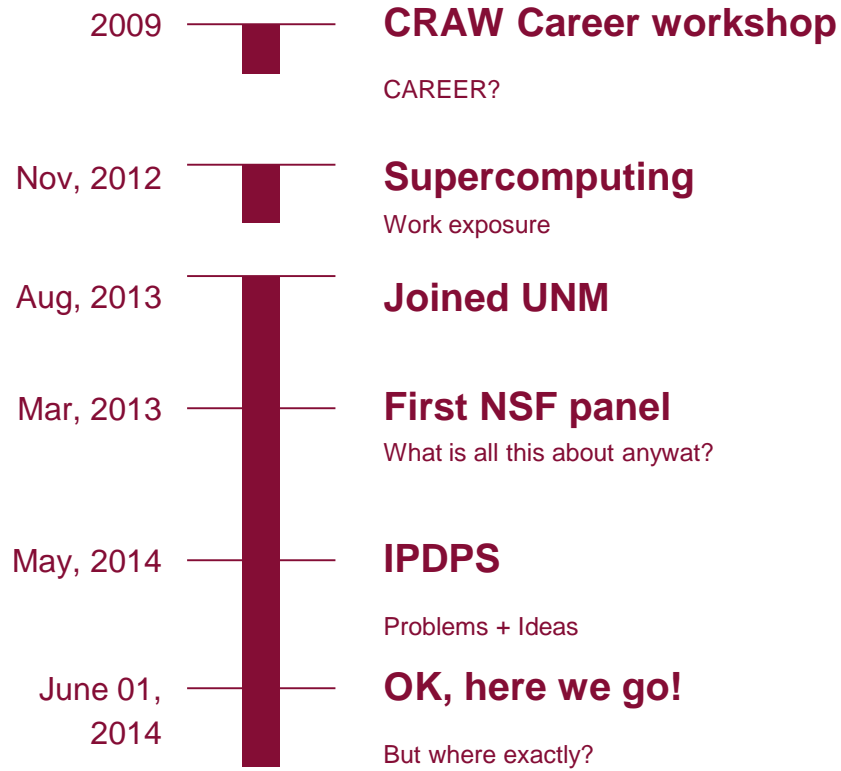
- How are proposals structured?
- What do reviewers discuss?
- How easy is it to get your message lost in the minutiae?
- How important it is to follow the solicitation?
- What other things are useful to include?





- Two things happened:
1. Saw my PhD advisor
  2. Got energized
    - New ideas and problems





Ok, here we go!!  
but where?





- Figure out where do you fit in the current research landscape
- Leverage your expertise
  - New direction, but not so new that you don't have the expertise
- Discuss with colleagues
- Get examples of other proposals

Ok, here we go!!  
but where?



2009

**CRAW Career workshop**

CAREER?

# World Cup 2014

Nov, 2012

**Supercomputing**

Work exposure

Aug, 2013

**Joined UNM**

Mar, 2013

**First NSF panel**

What is all this about anyway?

May, 2014

**IPDPS**

Problems + Ideas

June 01,  
2014

**OK, here we go!**

But where exactly?

Jun 12,  
2014

**World Cup**

Soccer + writing





# World Cup 2014

- 2009 **CRAW Career workshop**  
CAREER?
- Nov, 2012 **Supercomputing**  
Work exposure
- Aug, 2013 **Joined UNM**
- Mar, 2013 **First NSF panel**  
What is all this about anyway?
- May, 2014 **IPDPS**  
Problems + Ideas
- June 01, 2014 **OK, here we go!**  
But where exactly?
- Jun 12, 2014 **World Cup**  
Soccer + writing



FIFA WORLD CUP  
Brasil

## Focus and Motivation



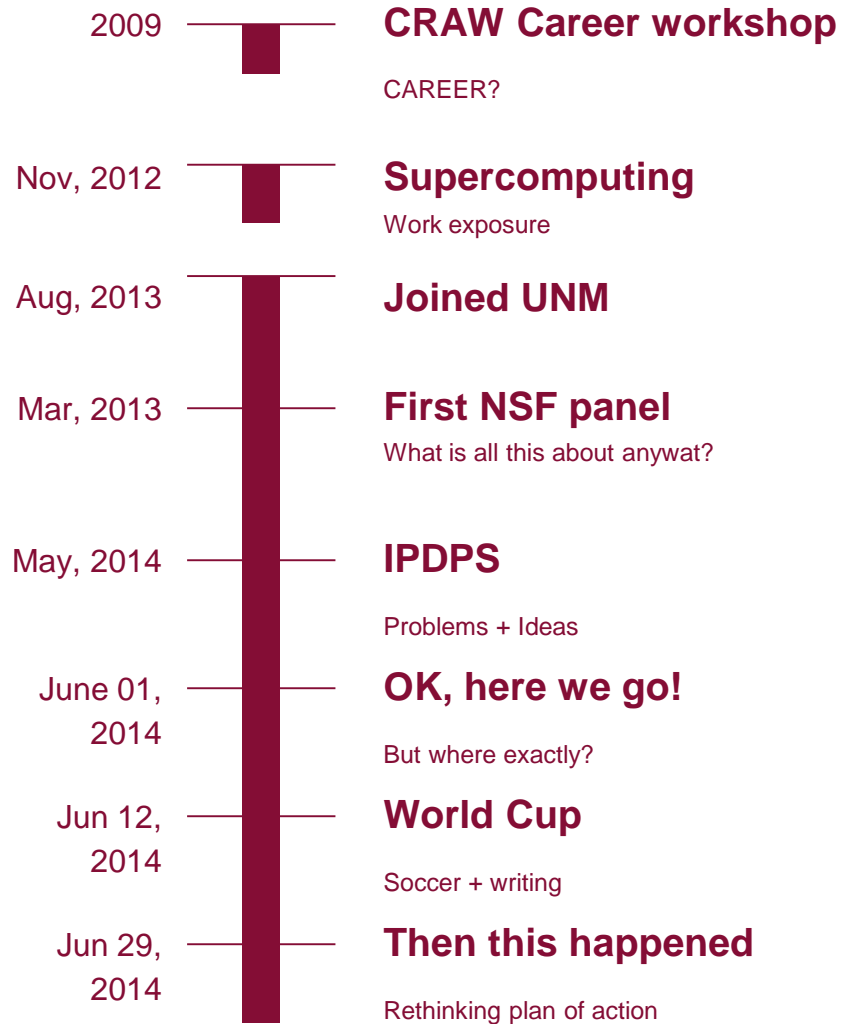


FIFA WORLD CUP  
Brasil

- Identified the specific research challenges that I wanted to pursue
- Identified specific outcomes and milestones
- Identified a way to combine research and teaching with community involvement
- Identified long term goals

2009	<b>CRAW Career workshop</b> CAREER?
Nov, 2012	<b>Supercomputing</b> Work exposure
Aug, 2013	<b>Joined UNM</b>
Mar, 2013	<b>First NSF panel</b> What is all this about anyway?
May, 2014	<b>IPDPS</b> Problems + Ideas
June 01, 2014	<b>OK, here we go!</b> But where exactly?
Jun 12, 2014	<b>World Cup</b> Soccer + writing
Jun 29, 2014	<b>Then this happened</b> Rethinking plan of action



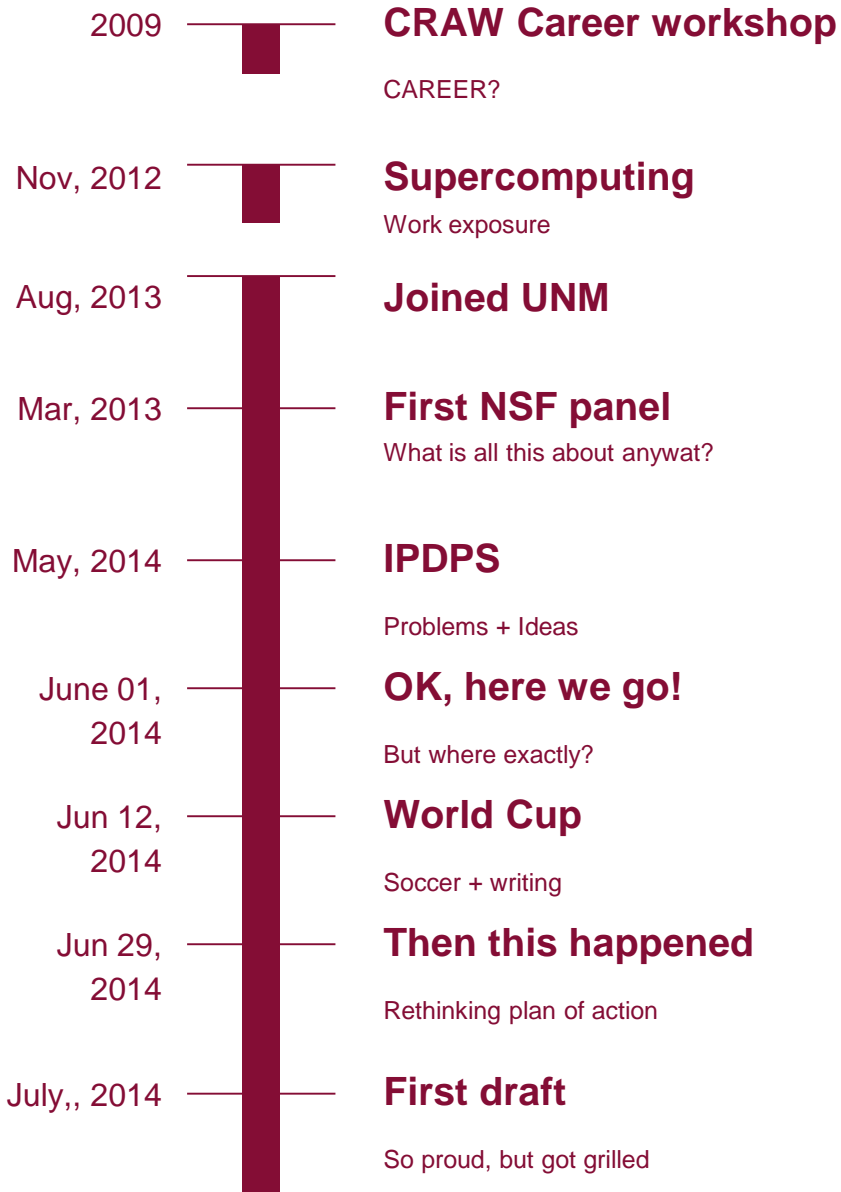


# Rethink the plan of action: better organization

## For each contribution:

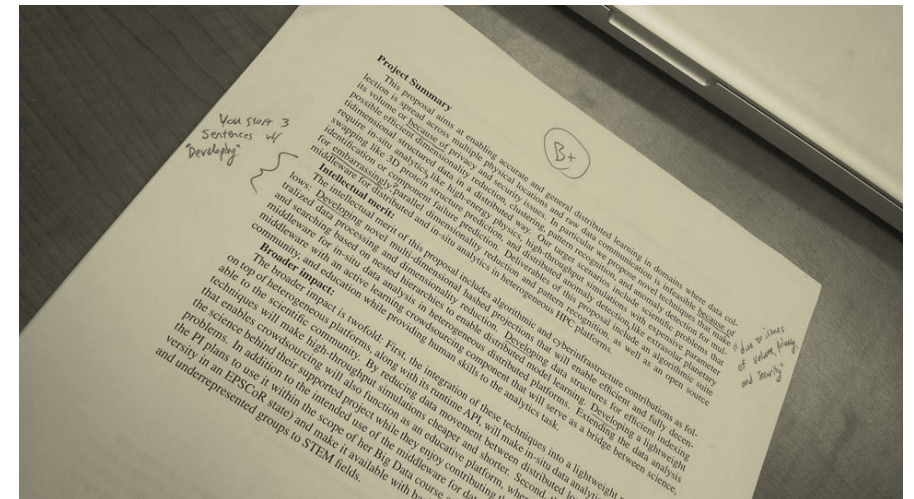
- Description
- Evaluation and outcomes
- Broader impact
- Prior work





# Get feedback from both, senior and junior colleagues

- Be more concrete
- Give a quantitative example
- Explain in plain terms why is this important





Final draft, submitted just hoping to get initial feedback

To contact or not to contact NSF Program Director?

2009	<b>CRAW Career workshop</b> CAREER?
Nov, 2012	<b>Supercomputing</b> Work exposure
Aug, 2013	<b>Joined UNM</b>
Mar, 2013	<b>First NSF panel</b> What is all this about anyway?
May, 2014	<b>IPDPS</b> Problems + Ideas
June 01, 2014	<b>OK, here we go!</b> But where exactly?
June 12, 2014	<b>World Cup</b> Soccer + writing
June 29, 2014	<b>Then this happened</b> Rethinking plan of action
July, 2014	<b>First draft</b> So proud, but got grilled
A few hours before the deadline	<b>Final draft</b> Yayy!!

Final draft, submitted just hoping to get initial feedback, got funded!!

Fight for each ball, you never know what might happen if you try





 COMPUTER SCIENCE

trilce@unm.edu





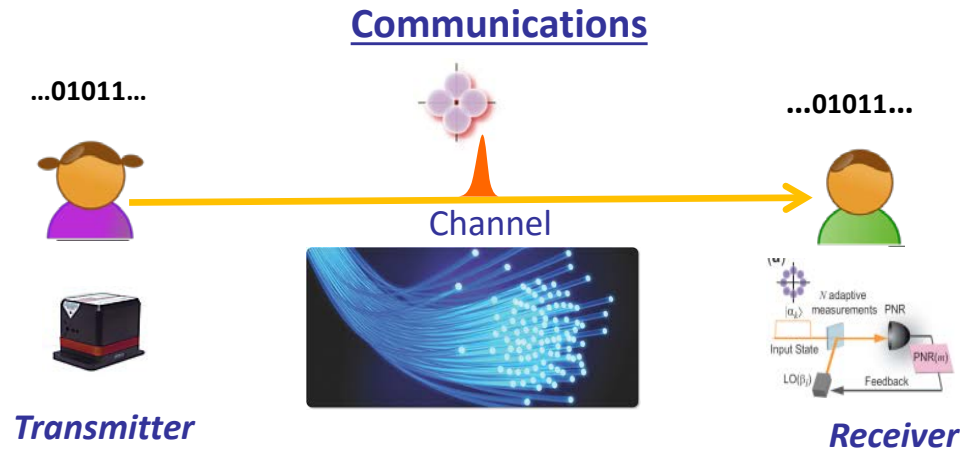
# NSF Career Panel: Francisco Elohim Becerra

## Quantum Measurements for Optical Communications

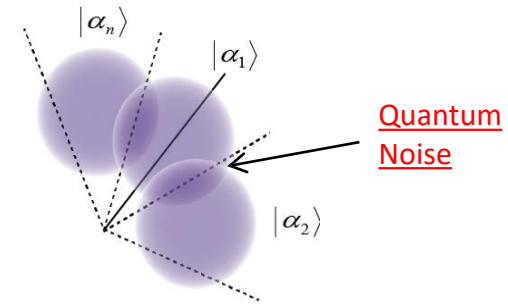
How efficient can communication be?  
What are the physical limits in comm.?

Light 

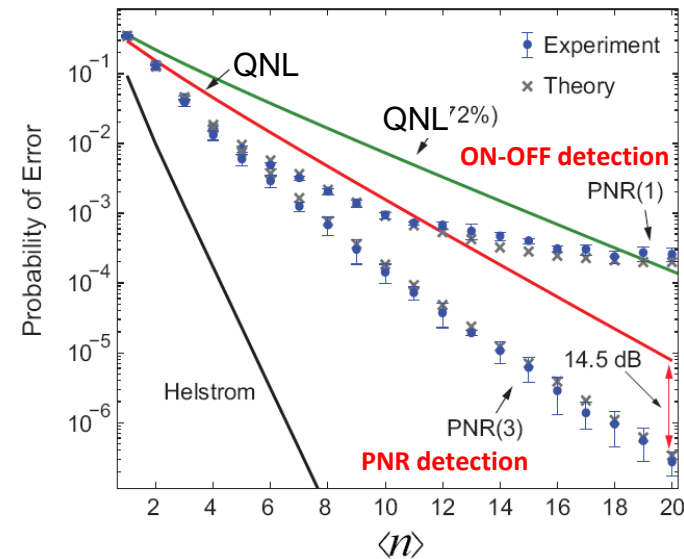
- Photons from lasers



Coherent States: Nonorthogonal



**Discrimination**  
Unavoidable Errors





# Proposal History

(Postdoc project)

- **Fall 2013:** UNM research plan: build on this work

- **11-2013:** [Applied](#) to Dir. of Engineering (NSF)  
Sent to crossdisciplinarity review panel:  
*Quantum, Mol. and High Perf. Model and Sim. for Devices and Syst.*

- **05-2014:** [Denied](#)

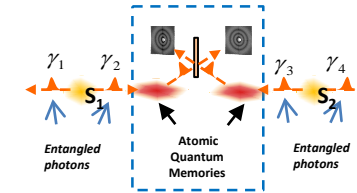
Ratings: V, V/G, V/G, G, G; CCSS: E, G, G

- ...“ (panel) viewed (the proposal) as *somewhat incremental, a continuation of the PI's previous work as a postdoc*” ...
- ...“broader impact discussion is very short, and *educational and outreach components are completely absent*” ...

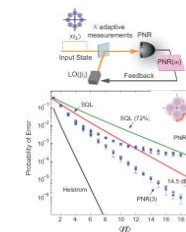
Suggestions...“PI participates in *workshops on writing proposals* (including CAREER) to meet NSF's expectations. ” ...

Plan: Get prelim data and Broaden the scope of work

High-Capacity Atom-Photon Interfaces



Quantum Measurements:  
Nonconventional Detection



# CAREER: prepare and submit

## ***Project to build career (think beyond 5 years)***

- Had prelim results
- Broaden scope of science
- Include broader impacts and educational component

## Preparing and application

**READ & THINK GUIDES AND EXAMPLES** (NSF online)

- *“NSF CAREER Proposal Writing Tips”*
- *“Writing A Winning CAREER Proposal” ... many more...*

**Credible/doable 5-year plan, but yet groundbreaking science...(no trivial)**

## What to (and not to) do...

- **Write clearly (zero-jargon):** Reviewers may not be experts
- **Think of it as a lifetime project:** career development
- **Propose things that you want to do**
- **Get people to read it:** experts and no experts
- **Submit on time to UNM:**
- **Do not make changes at the last minute**

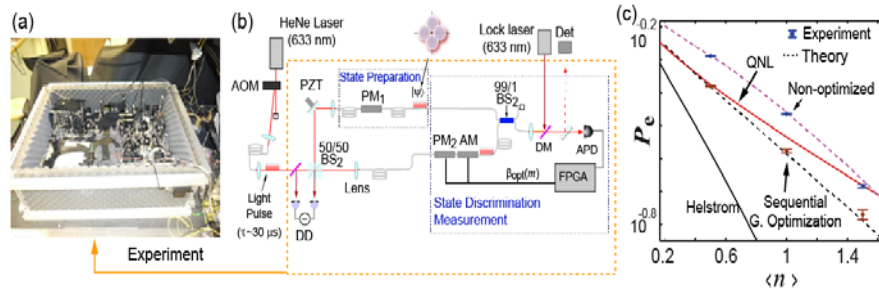
# CAREER: prepare and submit

- **07-2016:** [Applied](#) to CAREER (NSF)
  - *Make sure your proposal goes to the correct (intended division)*
  - Budget asked about \$750 K
- **10-2016:** [Requested reviews to NSF](#) to submit to another (NSF)
  - **11-2016** *Got response: not recommended but (PM) wanted to defer decision until January, 2017. Rating: E, VG/G, VG, VG*
  - I submitted to another program
- **01-2017:** [Call and message from NSF](#)
  - CAREER recommend that it be supported at the level of \$100,000/yr for 5 years
  - Re-budget and resubmit
  - Grant started **April 27, 2017.**

# CAREER proposal: Science Components

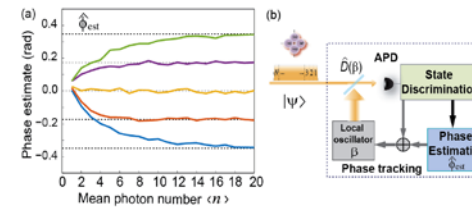
## Current research

- Prelim data
- Prelim theory



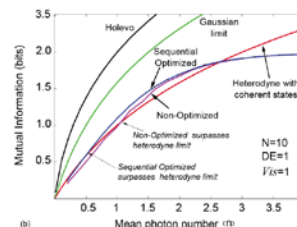
## New research

- Some prelim theory
- solve current problems (optical and quantum comm.)



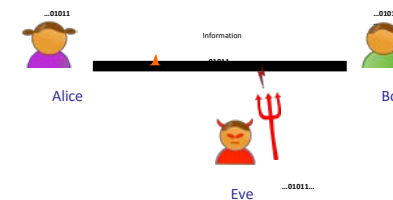
## Newer/paradigm shifting research

- Ideas of superadditivity
- Very difficult and futuristic
- Groundbreaking impact in communication and information theory



## Broader impacts (Vision)

- Impact in current technologies?
- How would change current fields?
- Which other fields would open?

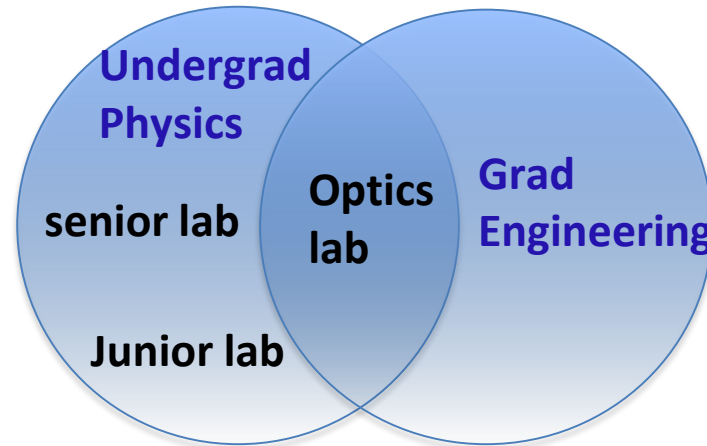


# CAREER proposal: Education (4/15 pgs.)

- New experimental components to existing curricula
  - 5 experiments across 3 courses
  - Undergraduate and graduate education
  - New tracks in join academic programs (physics and engineering)

## Experiments

- Atomic
- Optics
- Lasers
- Quantum mechanics/optics



## Motivation and Justification (Why? And Why me?)

- There is a real need
- It can make a real impact at (UNM)
- I know the course very well
- I know the problems, I have a plan
- I believed I can make a real impact
- I Want to do it

- Use experiments to integrate undergraduate in research

## Portable source of entangled photons (undergraduate research)

- Teaching labs
- Research in my lab

# Applying for the NSF CAREER: Personal Perspectives

Zhen Peng

Electrical and Computer Engineering Department

University of New Mexico

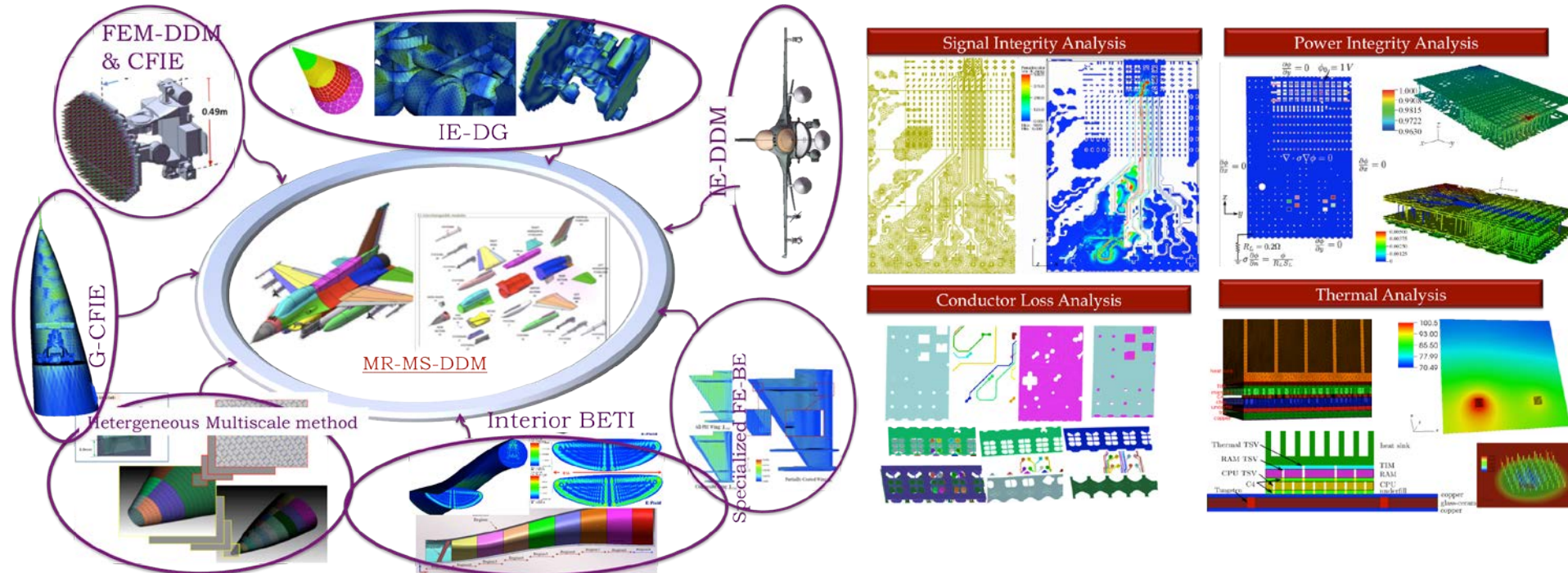
E-mail: [pengz@unm.edu](mailto:pengz@unm.edu)

April 26, 2018

- Started as an Assistant Professor at the Applied Electromagnetics Group in the Electrical and Computer Engineering Department in Aug. 2013
- Applied NSF CAREER twice:
- 2016: ECCS - CDS&E, ECCS - COMMS, CIRCUITS & SENS SYS (Competitive - *The research plan includes a large scope that may be consolidated for better focus.*)
- 2017: ECCS - COMMS, CIRCUITS & SENS SYS
- Other award NSF project: 2015 CCF/AF, 2016 CCF/AF SUP

## Computational and Applied Electromagnetics

- 2 Supercomputing-enabled design-through-analysis paradigm
- 2 Scalable computational algorithms, domain decomposition methods
- 2 Multi-physics and multi-disciplinary model and simulation
- 2 Computational Electrodynamics with machine intelligence

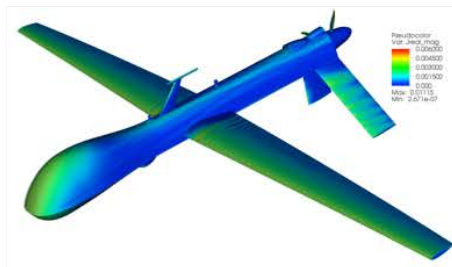
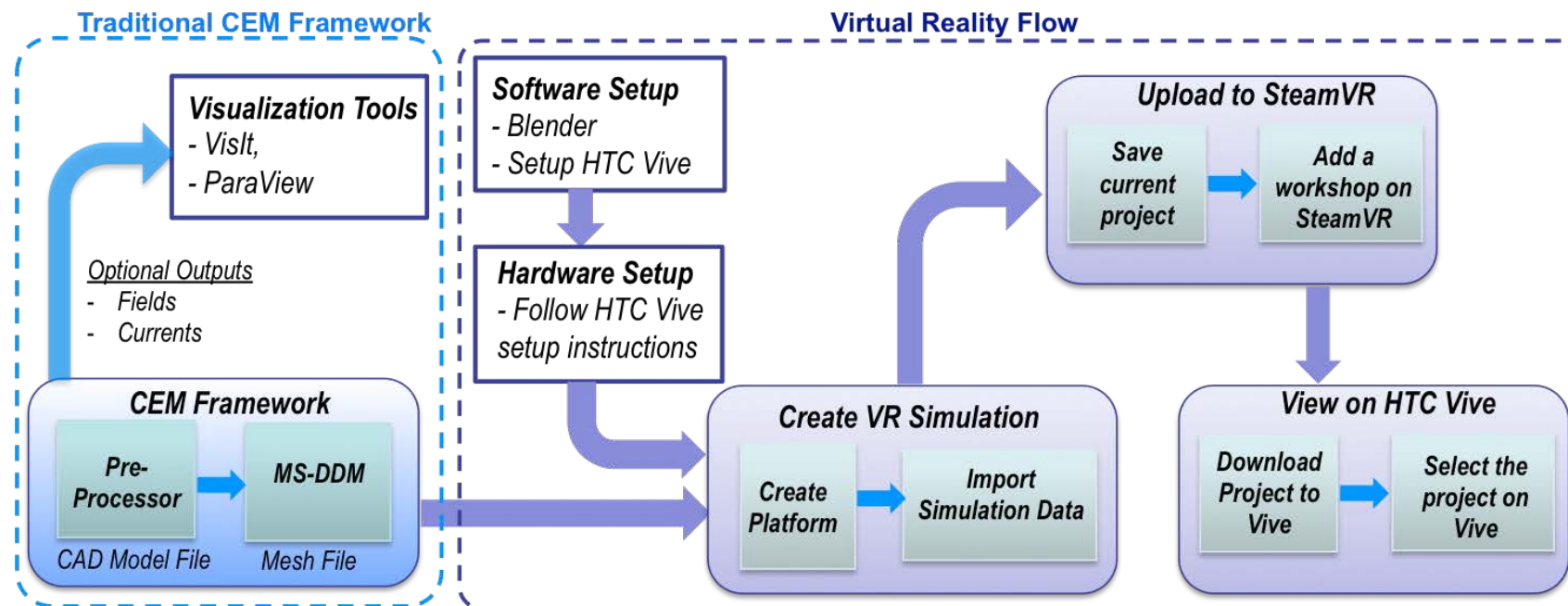




# CHOOSE A GOOD AND SPECIFIC PROBLEM

- New research directions, focused, and innovative
- Think about the 5-year and 10-year plan, and how does the proposed work support the long-term plan
- Develop the idea, why are you the person to investigate the problem
- My long-term career goal: use computer simulation to perform virtual experiments that replicate large-scale electrodynamic systems. These simulations will enable prediction and discovery of new phenomena, allow for the design and optimization of complex systems at unprecedented scales, and contribute through education to the advancement of understanding.
- In pursuit of my long-term goal, the research objective of this CAREER proposal is to investigate new fundamental mathematical models and computational algorithms for the **statistical wave analysis in complex electromagnetic (EM) environments**.

Virtual reality electromagnetic laboratory, which offers a multifaceted teaching and learning environment through innovative data visualization and interactive simulation. The lab will utilize virtual reality (VR) data visualization to visualize various EM sources, fields, waves, and their interactions with environments.



- Attend NSF Career workshop, 2016
- Serve on NSF panels and review proposals, three times
  - Help to understand the review process
- Get to know your program director/directors
- Discuss with your research ideas with several PDs (early)
- Program director may recommend your proposal to the most relevant program

- Got a mentor to help guide my progress (Christos Christodoulou, Edl Schamiloglu)
- Discuss proposal ideas, specific plan, big impact ...
- Read your proposal and give you feedbacks

Department letter is Important!

A description of

- a) the relationship between the CAREER project, the PI's career goals and job responsibilities, and the mission of his/her department/organization
- b) the ways in which the department head (or equivalent) will ensure the appropriate mentoring of the PI, in the context of the PI's career development and his/her efforts to integrate research and education throughout the period of the award and beyond

- The NSF CAREER review panel consists of well-know professors in the society
- It is good if they know you and your past work
- Attend conferences, talk to your colleagues in the conferences, introduce your work ...

Thanks & Good luck!

Email: [pengz@unm.edu](mailto:pengz@unm.edu)

# Ramesh Giri

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ASSISTANT PROFESSOR

DEPARTMENT OF CHEMISTRY AND CHEMICAL BIOLOGY

# NSF Emphasis Area and the Reviewers' Take on the Proposal

New NSF Emphasis Area in the NSF-wide SusChEM (SEES) initiative

**“Fundamental research topics of interest in SusChEM include:  
replacement of rare, expensive, and/or toxic chemicals with earth-abundant,  
inexpensive, and benign chemicals”**

Proposed Work: Not Funded Twice! (Based on Reviewers' Comments)

TITLE OF PROPOSED PROJECT **SusChEM: CAREER: Development of Cross-Couplings with Base Metals**

**Importance of the proposed work: Nobel prize 2010 but requires rare and expensive metal Palladium  
Base metals (copper): unsolved problems, Other people actively working: MIT, Caltech, Berkeley**

Consulted with NSF Program Director

**Advice – “Do Something New and make Outreach strong”**

Change of Plans – Something New and Strong Outreach – Funded!

**What I Learnt? – Needs to keep a balance between what the NSF emphasis area is  
and what the reviewers (the community) want to see and like!**



# How Does Outreach Help the CAREER Proposal Get Funded?

Excellent Proposal with Weak Education/Outreach Brings Down Overall Rating

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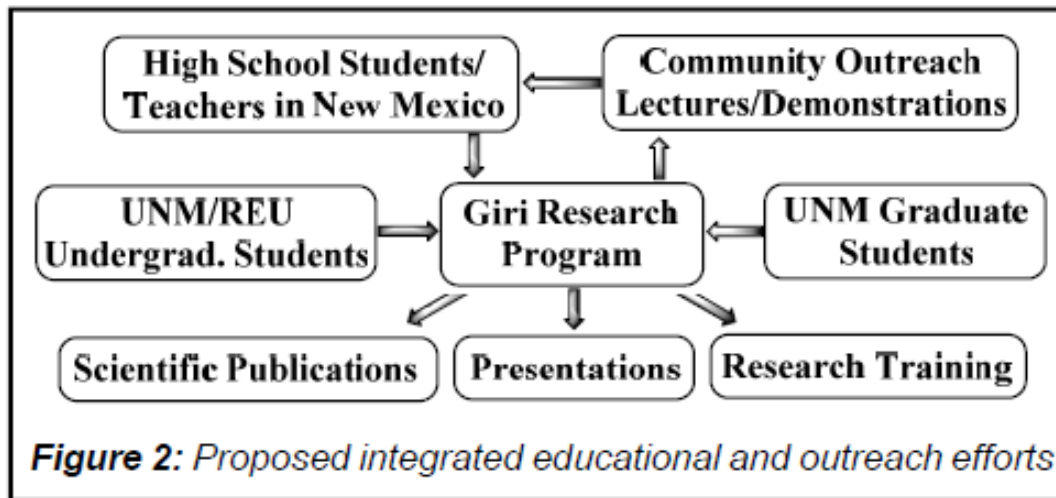
Decreases Chance of Funding

Good Proposal with Excellent Education/Outreach Brings Up Overall Rating

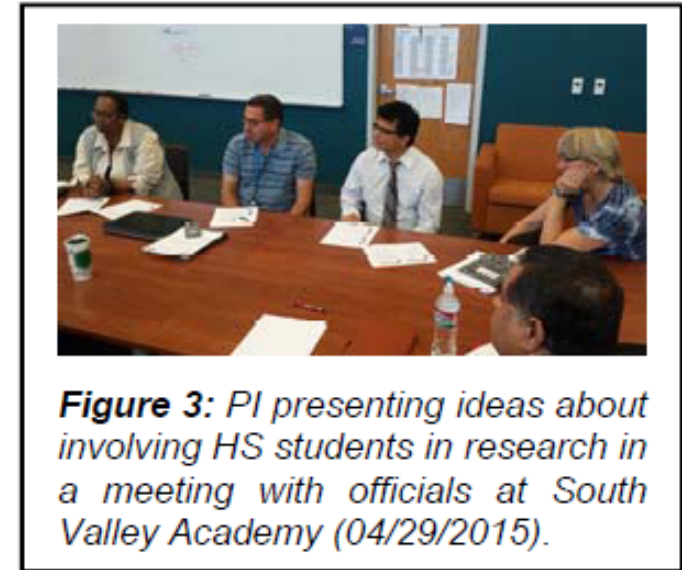
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Increases Chance of Funding

## Strong Outreach Makes a Regular Proposal Strong!



provides research and classroom opportunities to high school, undergraduate, and graduate students in NM in an integrated approach (Figure 2).



**Figure 3:** PI presenting ideas about involving HS students in research in a meeting with officials at South Valley Academy (04/29/2015).

## Be Creative to Integrate Research with Education/Outreach

# How Much Money to Ask for?



OR



**My Fearless Friend Asked for \$900K**  
**When NSF Decided to Fund the Proposal:**  
**20% Cut = 720K**



Combiflash



**I the Weakling Asked for \$768K**  
**When NSF Decided to Fund my Proposal:**  
**12% Cut = 675K**

**Fearless Friend:**  
**Asked for Equipment by Justifying It's**  
**Need in Education/Outreach Efforts**

**I Got 45K Less than my Friend!**



**Ask as Much as You Need but Clearly Justify it!**  
**Talk to Your Program Officer (Director)**

**Good Luck!**

**I Hope You will Join**

**the NSF CAREER**

**Awardee Club Soon!**

# Career Awardee Panel Discussion

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ROB MILLER, ARASH MAFI, TRILCE ESTRADA, RAMESH GIRI,  
FRANCISCO ELOHIM BECERRA, ZHEN PENG

# In Summary...

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- Think Program not Project
  - 10-20 year plan with first 5 fully funded
- Clearly Integrate your **Research** *and* **Education**
  - Find out where your research fits within NSF, national, and global priorities
- Develop an Education Plan you want to and can do
- Assessment/Evaluation *is* important
- Find reviewers (expert and non-expert) (UNM and external) to read proposal and provide feedback
- Get experience with the NSF before submitting to CAREER
  - Prior NSF Support
  - Review Panels
  - Talking to Project Manager

### Our Mission

The Faculty Research Development Office (FRDO) works in close collaboration with other units of the Office of the Vice President for Research (OVPR) and with research administration personnel in colleges and departments to enable faculty to obtain external funding. FRDO also helps to implement campus research initiatives.

Submit a Request for Proposal Support

## CORE SERVICES

ASSIST WITH LIMITED COMPETITIONS

View Limited Competitions

COORDINATE WORKSHOPS AND SEMINARS

View all Workshops

ADMINISTER OVPR RESEARCH INITIATIVES

View Faculty Support Initiatives

PROPOSAL PLANNING & EDITING SUPPORT

Learn More About These Services

SUPPORT EARLY CAREER INVESTIGATORS

Find Out More

HELP WITH FUNDING SEARCH

View Funding Opportunities

# Resources for Early Career Investigators



### Our Mission

The Faculty Research Development Office (FRDO) works in close collaboration with other units of the Office of the Vice President for Research (OVPR) and with research administration personnel in colleges and departments to enable faculty to obtain external funding. FRDO also helps to implement campus research initiatives.

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## CORE SERVICES

ASSIST WITH LIMITED COMPETITIONS



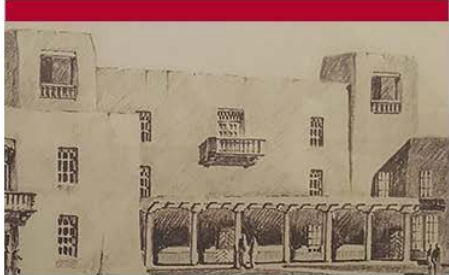
View Limited Competitions

COORDINATE WORKSHOPS AND SEMINARS



View all Workshops

ADMINISTER OVPR RESEARCH INITIATIVES



View Faculty Support Initiatives

PROPOSAL PLANNING & EDITING SUPPORT



Learn More About These Services

SUPPORT EARLY CAREER INVESTIGATORS



Find Out More

HELP WITH FUNDING SEARCH



View Opportunities

# Resources for Early Career Investigators

- Early Career Investigators**
- Introduction
- Strategies For Your Success
- Early Career Investigator Funding Opportunities
- Workshops & Other Resources
- News Archive

**Upcoming Early Career Submission Deadlines**

1. *Air Force FY 2019 Young Investigator Research Program (YIP)*  
**June 1, 2018 - 5:00pm**  
[www.grants.gov](http://www.grants.gov)  
\$450,000/3 years
2. *Mentored Quantitative Research Development Award (Parent K25) - PA-18-396*  
**June 12, 2018 - 5:00pm**  
[grants.nih.gov](http://grants.nih.gov)
3. *Mentored Clinical Scientist Research Career Development Award (Parent KO8) - PA-18-373*  
**June 12, 2018 - 5:00pm**  
[grants.nih.gov](http://grants.nih.gov)
4. *Mentored Research Scientist Development Award (Parent KO1) - PA-18-369*  
**June 12, 2018 - 5:00pm**  
[grants.nih.gov](http://grants.nih.gov)
5. *AHRQ Mentored Research Scientist Research Career Development Award (KO1)*  
**June 12, 2018 - 5:00pm**  
[grants.nih.gov](http://grants.nih.gov)

**MORE »**

**EARLY CAREER INVESTIGATORS AT UNM**



Young Investigators from across campus gathered March 21, 2017 to learn about the NSF Early CAREER award from UNM former awardees.

**OVERVIEW**

Early career investigator is a term used by a number of federal and non-federal sponsors to define individual applicants who meet one or more of these qualifications depending on the requirements of the sponsor:

- Pre-tenured academic faculty
- Academic or non-tenure track research faculty within their first 5 years postdoctoral career
- Academic or non-tenure track research faculty within their first 10 years postdoctoral career

In order to support the burgeoning careers of early investigators, a number of sponsors make special awards available just to this group of individual applicants.

The Faculty Research Development Office provides direct support to early career investigators interested in submitting proposals to these types of solicitations. In addition to the **proposal support** we provide to all UNM main campus faculty and staff, we also offer information relevant to **strategies for success** as an early career investigator, relevant **funding opportunities** from both federal and non-federal sponsors, **early career investigator specific workshops and other resources**, and a **news archive** highlighting the success of early career investigators on campus.

# Early Career Investigators at UNM

- Subsite off main [frdo.unm.edu](http://frdo.unm.edu) site devoted to early career investigators
- Relevant, searchable articles
- Early career specific funding opportunities
- Workshop archives and early career specific resources
- News archive (in the works) celebrating early career awards



# 2019 NSF CAREER Cohort

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- Peer Support + FRDO Facilitator
- Fully understanding CAREER expectations
- Scheduled guidance to keep everyone on track starting this Fall
- Team building – helping everyone succeed
- Whole group + one-on-one meetings as needed
- Contact [Stephanie Tofighi](#) if you're interested in joining.

# CAREER Proposal Timeline

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Time Frame	Task
D – 12 months	Start making outreach connections if part of your proposal
D – 6 months	Select expert readers to advise on proposal (Internal & External)
D – 2 months	<ul style="list-style-type: none"><li>• Talk to your chair about required resources you'll need to include in department letter</li><li>• Share a rough draft with readers (non-expert &amp; expert)</li><li>• Start working with department FRSO or administrator to develop proposal</li></ul>
D – 5 weeks	Polished draft to readers (non-expert & expert)
D – 3 weeks	Chair should have your draft proposal including their department letter and your CV
D – 2 weeks	Proofreading of proposal by readers (non-expert)
D – 5 days	Route your proposal with final budget and other non-technical pieces + drafts of technical pieces
D – 2 days	OSP should have your final proposal
Due Date	NSF has your proposal

# CAREER Proposal Timeline

Time Frame	Task
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D - 6 months	Select
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# Questions?

## FACULTY RESEARCH DEVELOPMENT NETWORK DIRECTORY

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