



# Class of 2018- CAREER PLANNING

---

## Post-Graduate Educational and Professional Opportunities

Sarah Lorentz, Pharm.D.  
Director, Medication Therapy Management Services  
Ambulatory Care and Community Practice Experiential Education  
slorentz@ucsd.edu

**UC San Diego**  
SKAGGS SCHOOL OF PHARMACY  
AND PHARMACEUTICAL SCIENCES

# Welcome to Post-Graduate Preparation

---



UC San Diego  
SKAGGS SCHOOL OF PHARMACY  
AND PHARMACEUTICAL SCIENCES



# Post-Graduate Planning Objective

---

- To develop a timely, comprehensive, structured program in post-graduate planning for student pharmacists at UC San Diego Skaggs School of Pharmacy.



## A Postgraduate Education Preparation Program, Meeting the Challenge in a Competitive World

Sarah M. Lorentz, Pharm.D.<sup>1</sup>, David S. Adler, Pharm.D.<sup>1</sup>, Candis M. Morello, Pharm.D., CDE<sup>1</sup>, and Palmer Taylor, Ph.D.<sup>1</sup>

<sup>1</sup>UC San Diego Skaggs School of Pharmacy and Pharmaceutical Sciences, La Jolla, CA



### ABSTRACT

The Skaggs School of Pharmacy and Pharmaceutical Sciences (SSPPS) at the University of California, San Diego recognized in 2012 that securing postgraduate pharmacy training became more challenging and competitive among well-qualified candidates.

Although accredited residency programs have continued to grow, they have become more competitive with increased numbers of Pharm.D. graduates and applicants for residencies. In 2007, 1900 candidates applied for 1612 positions and by 2016, 5655 candidates applied for 3312 positions.\*

A gradual downward trend in the percentage of SSPPS applicants obtaining residencies/fellowships was observed from 2009 to 2012. Faculty responded by developing a focused post-graduate program, involving leaders in UC San Diego pharmacy residency and fellowship programs, as well as creating a website database.

The goal was to provide a timely, comprehensive, and structured program for students to prepare for post-graduate career and professional development. Prior to this program, presentations for career planning were available but not widely promoted or coordinated.

The new program provided an enhanced format which addressed students' future planning. Initially, the programming primarily focused on a series of presentations for the P-4 class, although over the years has added introductory presentations for underclassmen. The program is coordinated by a faculty advisor with P-4 class leaders.

The program includes topics and activities related to residency/fellowship and career planning, the PhORCAS application process, fellowship programs, career tracks, curriculum vitae support, residency showcase panels and workshops, interviewing techniques, mock interviews, and preparing for the match and post-match process, and website resources.

Since the program inception, the percentage of UCSD SSPPS students entering residencies has returned to its highest levels. Student pharmacists have benefited from this structured program as they transition from their professional education to post-graduate training and professional opportunities.

\*Data collection methods may vary from year to year – some programs opted out of PhORCAS prior to 2016. PhORCAS started in 2013 with significant participation but did not become mandatory until 2016.

### OBJECTIVES

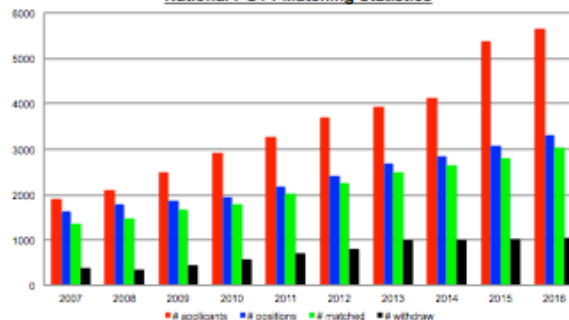
- To develop a timely, comprehensive, structured program in post-graduate planning for student pharmacists at UC San Diego Skaggs School of Pharmacy.
- To provide SSPPS students with support and resources to aid in their residency and fellowship pursuits.

### PROGRAM DEVELOPMENT

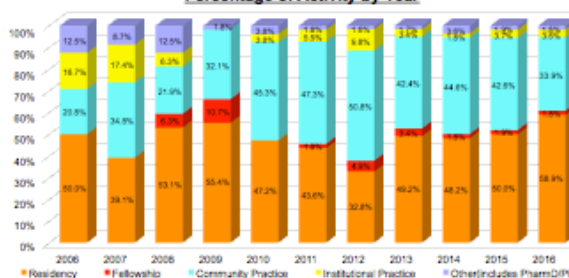
- Identified faculty, preceptors, and pharmacists from community organizations with residency preceptor experience
- Received support from student organizations and participation from current residents and fellows
- Established collection of current post-graduate planning books on reserve at Biomedical Library
- Developed schedule for P-4 students with the support of class leaders
- Created website with schedule, presentations, select literature, and key links
- Provided listing of UC San Diego alumni residency program sites (2006-present)
- Initiated voluntary student program in early evening hours, after rotation for P-4 students
- Communicated updates regarding program scheduling via emails from student leaders
- Invited interested P-3 students to general overview program presentations
- Added introductory talk for P-2 and P-3 students in the fall of each year

### STATISTICS

National PGY1 Matching Statistics



UCSD SSPPS – Post-Graduate Activity Percentage of Activity by Year



UCSD SSPPS – Post-Graduate Activity Summary of Activity from 2006 thru 2016

Class Year	# in Class	# Residency	# Fellowship	# Community Practice	# Institutional Practice	# Other
2006	24	12	0	5	4	3
2007	23	9	0	8	4	2
2008	32	17	2	7	2	4
2009	56	31	6	18	0	1
2010	53	25	0	24	2	2
2011	55	24	1	26	3	1
2012	61	20	3	31	6	1
2013	59	29	2	25	2	1
2014	56	27	1	25	1	2
2015	54	27	1	23	2	1
2016	56	33	1	19	2	1
<b>Total</b>	<b>529</b>	<b>254</b>	<b>17</b>	<b>211</b>	<b>20</b>	<b>19</b>
<b>%</b>		<b>48%</b>	<b>3%</b>	<b>40%</b>	<b>5%</b>	<b>4%</b>

Numbers only include positions immediately filled in the year of graduation. Some students have started to begin residencies and fellowships a year following graduation.

### PROGRAM SCHEDULE

#### Schedule of Post-Graduate Seminars and Events

##### Post Grad Seminar #1

- General Overview of Post-graduate Education – Dr. Charles Daniels
- Planning for Residencies – Dr. Kelly Lee

##### Post Grad Seminar #2

- Fellowship Programs, Career Tracks and Resident/Fellow Panel – Dr. Joe Ma
- CV Overview – Dr. Sarah Lorentz

##### Post Grad Seminar #3

- The Residency Application Process – Dr. Felix Yam
- Introduction to PhORCAS – Dr. Marcie Lepkowski

##### Post Grad Seminar #4

- Residency Showcase / Resident Q & A Panel / Workshops (event co-sponsored by SSPPS CSHP-UCSD)

##### P-2/P-3 Introduction Seminar

- Planning for Residencies – Dr. Jennifer Namba

##### Post Grad Seminar #5:

- CV Review with faculty and San Diego County Pharmacists Association (hosted by Drs. Sarah Lorentz & Sarah McBane)

##### Post Grad Seminar #6

- The Interviewing Process – Dr. Juan Toledo

##### Post Grad Seminar #7

- Mock Interviews – Dr. Juan Toledo

##### Post Grad Seminar #8:

- Interviewing Tips – Dr. Brad Colwell

##### Post Grad Seminar #9:

- Match Process/Preparation for Phase II Match and the Scramble – Dr. Marcie Lepkowski (event co-sponsored by SSPPS CSHP-UCSD)

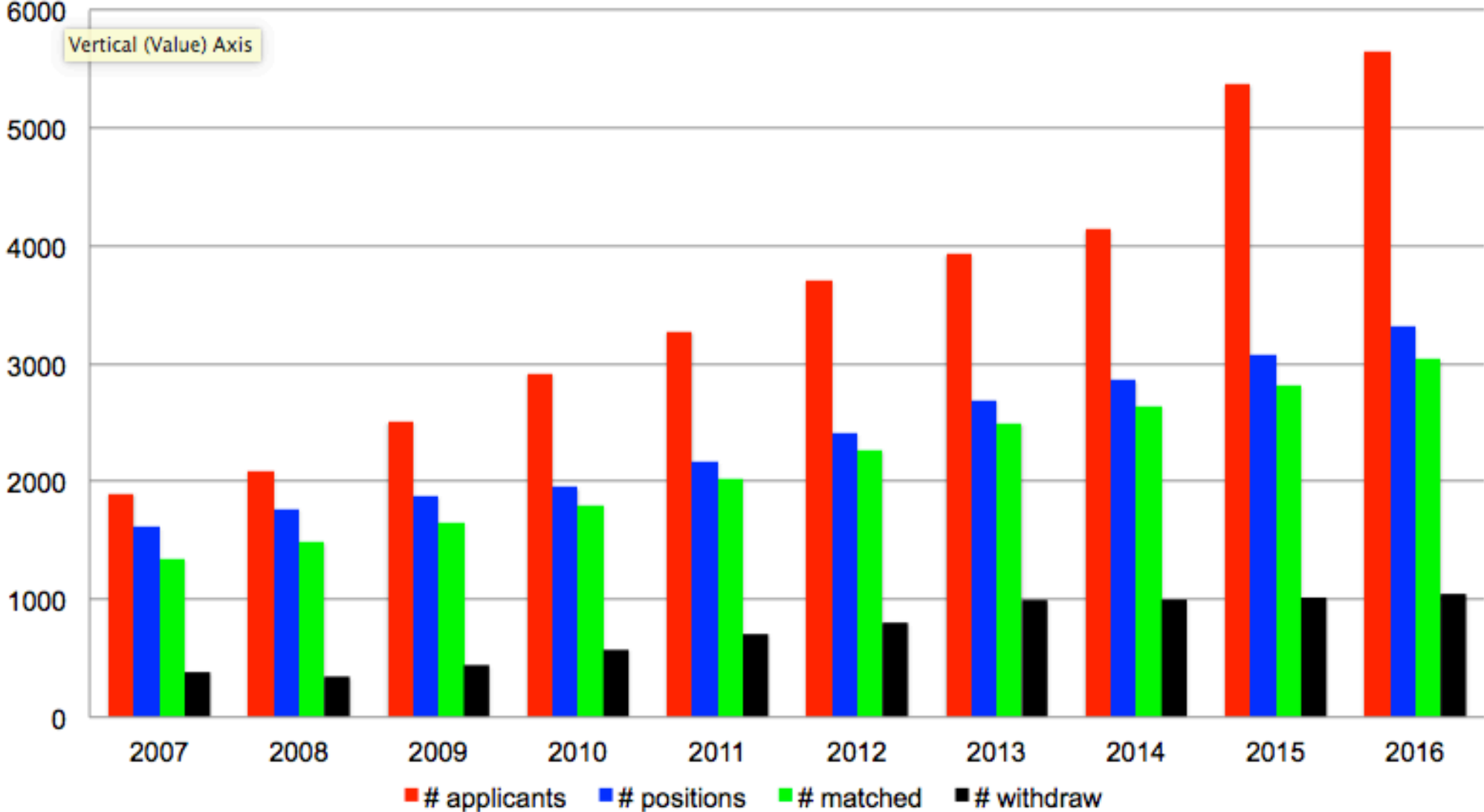
### CONCLUSIONS

- The structured program used at UC San Diego Skaggs School of Pharmacy and Pharmaceutical Sciences has been a successful means to disseminate post-graduate planning information to student pharmacists by providing guidance that coincides with real-world timelines, putting students on target for obtaining residency and fellowship opportunities. This format has achieved the original program objectives.
- Since the initiation of the program, UCSD SSPPS students have been increasingly successful in being accepted into residencies and fellowships in an environment of increasing competition.
- SSPPS continues to look for avenues to expand residency and fellowship opportunities. We encourage all schools of pharmacy to build collaborations to increase the number of quality residency and fellowship programs.

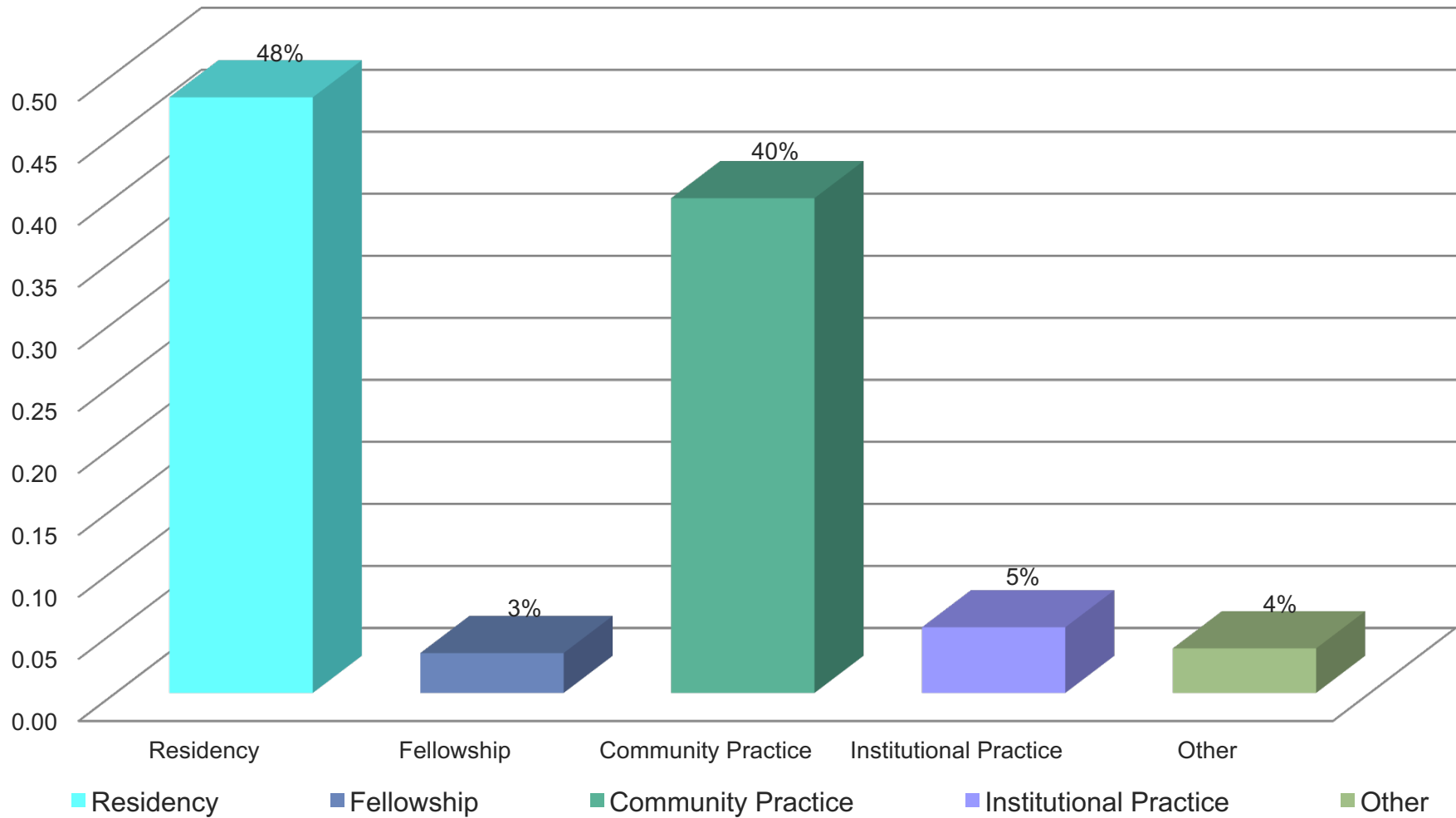
### ACKNOWLEDGEMENTS

We thank the UC San Diego Skaggs School of Pharmacy faculty, residency directors, and preceptors for their participation and presentations in the Post-Graduate Educational and Professional Opportunities program. We also thank Kim Clero and Reuel Tiosejo for their support with this program.

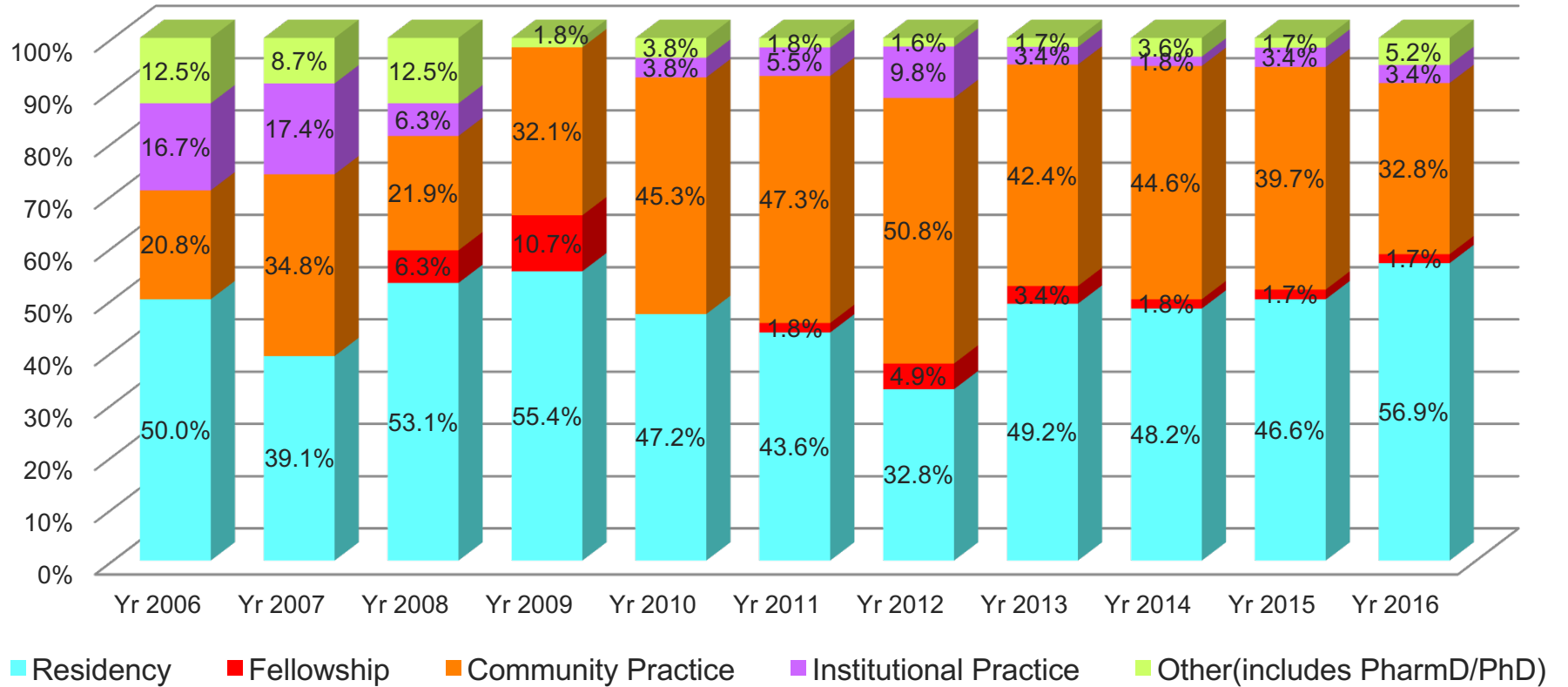
# National PGY1 Matching Statistics



**UCSD SSPPS  
Post-Graduate Activity  
Summary of Activity for Years 2006-2016**



## UCSD SSPPS - Post Graduate Activity Percentage of Activity by Year



## UCSD SSPPS – Post-Graduate Activity Summary of Activity from 2006 thru 2016

Class Year	# in Class	# Residency	# Fellowship	# Community Practice	# Institutional Practice	# Other
2006	24	12	0	5	4	3
2007	23	9	0	8	4	2
2008	32	17	2	7	2	4
2009	56	31	6	18	0	1
2010	53	25	0	24	2	2
2011	55	24	1	26	3	1
2012	61	20	3	31	6	1
2013	59	29	2	25	2	1
2014	56	27	1	25	1	2
2015	54	27	1	23	2	1
2016	56	33	1	19	2	1
<b>Total</b>	<b>529</b>	<b>254</b>	<b>17</b>	<b>211</b>	<b>28</b>	<b>19</b>
<b>%</b>		<b>48%</b>	<b>3%</b>	<b>40%</b>	<b>5%</b>	<b>4%</b>

Numbers only include positions immediately filled in the year of graduation. Some students have elected to begin residencies and fellowships, a year following graduation.





UC San Diego  
SKAGGS SCHOOL OF PHARMACY  
AND PHARMACEUTICAL SCIENCES

**Current Students**

Year 1

Year 2

Year 3

Year 4

E-Handbook

Licensure Preparation

All Students

Student Web Portal

Travel

Policies & Guidelines

Pharm.D./Ph.D. Program for Current Students

E\*Value

PILS

TritonLink

**Year-4 Students**

- CA Board of Pharmacy Intern Hour Affidavit
- Ten Simple Rules for Getting Published

<https://pharmacy.ucsd.edu/current/year04.shtml>

**Experiential Education**

- Experiential Education

**Postgraduate Preparation**

**Program for Class of 2016**

- Postgraduate Preparation Schedule
- Student Pharmacist Resource Guide
- Alumni Residency and Fellowship Programs

Presentations:

- General Overview of Post-graduate Education by Dr. Charles Daniels, 7/21/15
- Planning for Residencies by Dr. Kelly Lee, 7/21/15
- Curriculum Vitae Review by Dr. Sarah Lorentz, 9/3/15
- Fellowship Programs and Career Tracks by Dr. Joe Ma, 9/3/15
- The Residency Application Process and PhORCAS by Dr. Marcie Lepkowsky, 9/17/15
- Interview Pearls by Dr. Juan Toledo, 11/19/15
- Match Phase I and Phase II Scramble by Dr. Marcie Lepkowsky, 02/28/16

**Career Planning Program for Class of 2018(ComingSoon)**

- Schedule
- Resources
- Presentations

**Program for Class of 2015**

- Interview Pearls, Dr. Juan Toledo, 12/16/14
- Post Grad Education Program Schedule Class of 2015
- Student Pharmacist Resource Guide for the Class of 2015
- List of sites where our alumni have done residencies and fellowships  
 (Students can contact Kim Ciero for alumni contact information to inquire about program.)
- Overview of Postgraduate Training, Dr. Charles Daniels, 7/22/14
- Roadmap to Residency and Fellowship, Dr. Kelly Lee, 7/22/14
- CV Reviews, 8/26/14

## **Student Pharmacist Preparation Guide of Resources for Post-Graduate Educational and Professional Opportunities**

1. **Presentations/Events at SSPPS (see schedule)**
2. **Why should I consider a post-graduate program?**
  - a. What is a residency?  
<http://www.youtube.com/watch?v=zfcMOjtPWSM>
  - b. What is a fellowship? <http://www.ashp.org/DocLibrary/BestPractices/EducEndDefs.aspx>
3. **CV guidance**
  - a. UCSD SSPPS website
    - i. Instructions:  
[http://pharmacy.ucsd.edu/current/docs/Student\\_CV\\_Instructions.pdf](http://pharmacy.ucsd.edu/current/docs/Student_CV_Instructions.pdf)
    - ii. Template:  
[http://pharmacy.ucsd.edu/current/docs/Student\\_Curriculum\\_Vitae\\_Template.pdf](http://pharmacy.ucsd.edu/current/docs/Student_Curriculum_Vitae_Template.pdf)
    - iii. Sample:  
[http://pharmacy.ucsd.edu/current/docs/Student\\_Curriculum\\_Vitae\\_Sample.pdf](http://pharmacy.ucsd.edu/current/docs/Student_Curriculum_Vitae_Sample.pdf)
    - iv. Cover letter: [http://pharmacy.ucsd.edu/current/docs/Student\\_Cover\\_Letter.pdf](http://pharmacy.ucsd.edu/current/docs/Student_Cover_Letter.pdf)
  - b. The Ohio State University-College of Pharmacy website
    - i. <http://pharmacy.osu.edu/sites/default/files/forms/current-students/career-services/CSCVGuide%281%29.pdf>
4. **Career Guidance**
  - a. UCSD Career Service website: <http://career.ucsd.edu/>
    - i. Webcam mock interview
    - ii. Write, Speak, Do Meet: Handbook Tools  
<http://career.ucsd.edu/files/JobSearchHandbook.pdf>
    - iii. See calendar of presentations
  - b. UCSF Office of Career and Professional Development website  
<http://career.ucsf.edu/pharmacy-students>
5. **American Society of Health System Pharmacists (ASHP)**
  - a. Residency website:  
<https://www.ashp.org/Professional-Development/Residency-Information>
  - b. Residency directory:  
<http://accred.ashp.org/aps/pages/directory/residencyProgramSearch.aspx>
  - c. Midyear Clinical Meeting: National Showcases and residency related programming
    - i. December 3-7, 2017, in Orlando, Florida  
<https://www.ashp.org/Meetings-and-Events/Meetings-and-Conferences/Midyear-Clinical-Meeting-and-Exhibition>
6. **California Society of Health System Pharmacists (CSHP)**
  - a. Seminar Meeting
    - i. October 26-29, 2017, Las Vegas, NV (Paris Las Vegas Hotel)  
<http://www.cshp.org/page/Seminar>
  - b. Career Center  
<http://www.cshp.org/page/JobOpenings>

**7. Research/Fellowship** *(not a comprehensive list of all fellowships available)*

- a. UC San Diego & Millennium Health Post-doctoral Research Fellowship in Health Economics, Outcomes Research & Pharmacogenomics  
<http://pharmacy.ucsd.edu/research/fellowships/health-outcomes-pharmacogenomics.shtml>
- b. UC San Diego HRSA Geriatrics Workforce Enhancement Program  
<http://gwep.cloud.ucsd.edu/home>
- c. Rutgers Institute for Pharmaceutical Industry Fellowships  
<http://pharmafellows.rutgers.edu/>
- d. UCSD - Pfizer Clinical Oncology Fellowship  
[http://pharmacy.ucsd.edu/research/fellowships/pfizer\\_pharm\\_oncology.shtml](http://pharmacy.ucsd.edu/research/fellowships/pfizer_pharm_oncology.shtml)
- e. St. John's University/Forest Research Institute Industrial Fellowship  
<http://www.stjohns.edu/academics/schools-and-colleges/college-pharmacy-and-health-sciences/residency-and-fellowship-programs>
- f. Novo Nordisk 2-year Multidisciplinary Fellowship  
Contact: [Sabrina Lo, Pharm.D.](#)
- g. Novo Nordisk 1-year Medical Affairs Fellowship  
Contact: [Marni D. Lun, Pharm.D., MBA](#)

**8. Program Directories**

- a. ACCP Directory of Residencies, Fellowships, and Graduate programs  
<http://www.accp.com/resandfel/>
- b. International Society for Pharmacoeconomics and Outcomes Research Directory  
[http://www.ispor.org/education/educationaldirectory\\_index.asp](http://www.ispor.org/education/educationaldirectory_index.asp)

**9. Books Available on Reserve at the UCSD Biomedical Library**

- a. ACCP Directory of Residencies, Fellowships and Graduate Programs
- b. ACCP Guide to Becoming a Standout Pharmacy Residency Candidate
- c. Get the Residency, ASHP Guide to Residency Interview and Preparation
- d. Getting Started in a Pharmacy Residency, APhA
- e. Securing and Excelling in a Pharmacy Residency
- f. Roadmap to Postgraduate Training in Pharmacy
- g. Letters from Rising Pharmacy Stars: Advice on Creating and Advancing Your Career

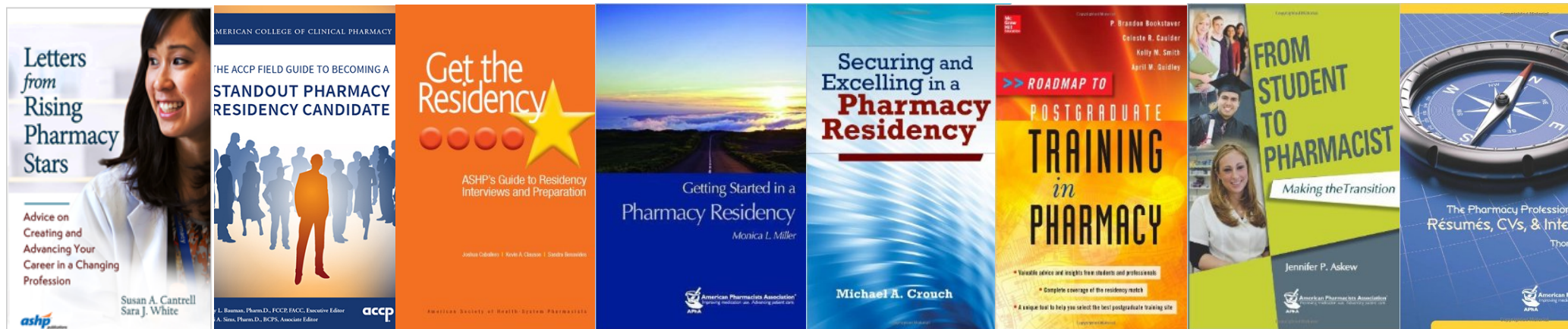
**10. Journal References**

- a. *Streamlining the Process for initial review of pharmacy residency applications: an analytic approach* by Christopher R. Ensor, Cathy L. Walker, Shyla K. Rider, Estela Uy Clemente, Daniel M. Ashby, and Kenneth M. Shermock  
Link: <http://www.ncbi.nlm.nih.gov/pubmed/24048603>
- b. *Strategies for successfully navigating the pharmacy residency interview process* by Sarah L. Anderson, Pharm.D., BCPS  
Link: <http://www.ncbi.nlm.nih.gov/pubmed/25991593>
- c. *Residency application screening tools: A survey of academic medical centers* by Kristen Hillebrand, Corey J. Leinum, Sonya Desai, Nathan Petit, and Packard D. Fuller  
Link: <http://www.ncbi.nlm.nih.gov/pubmed/25991588>
- d. *Characteristics of the ideal postgraduate year 1 pharmacy practice residency candidate: a survey of residency program directors* by AL Gohlke, DB Ray, SY El-Ibiary, and JF Barletta.  
<http://www.ncbi.nlm.nih.gov/pubmed/24106162>

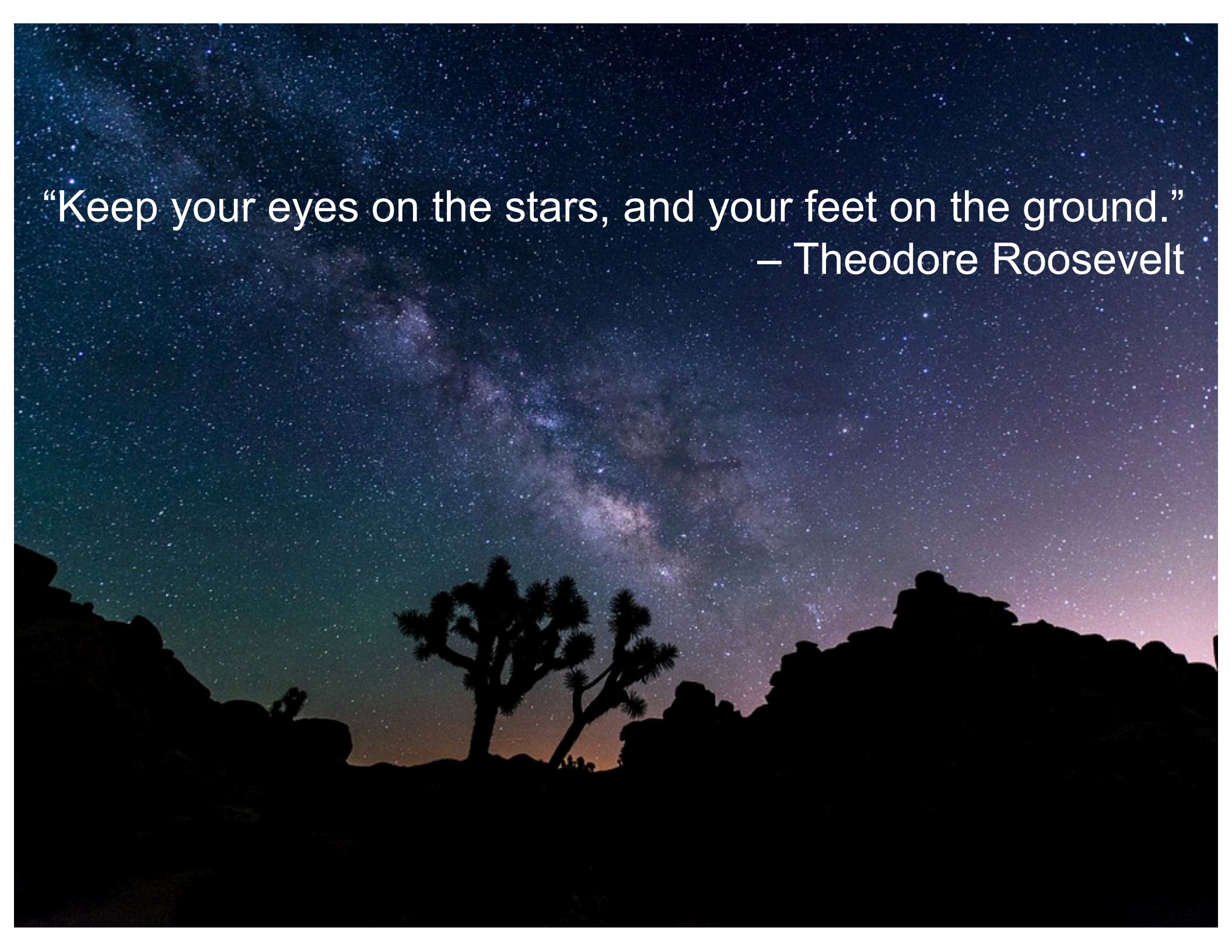


# Post-Graduate Education Planning Resources

- Books available on reserve at the UCSD Biomedical Library:
  - Letters from Rising Pharmacy Stars: Advice on Creating and Advancing Your Career in a Changing Profession
  - *ACCP Guide to Becoming a Standout Pharmacy Residency Candidate*
  - *Get the Residency, ASHP Guide to Residency Interview and Preparation*
  - *Getting Started in a Pharmacy Residency*
  - *Securing and Excelling in a Pharmacy Residency*
  - *Roadmap to Postgraduate Training in Pharmacy*
  - *From Student to Pharmacist: Making The Transition*
  - *The Pharmacy Professional's Guide to Resumes, CVs, & Interviewing*







“Keep your eyes on the stars, and your feet on the ground.”  
– Theodore Roosevelt





**Any questions?**

---

[slorentz@ucsd.edu](mailto:slorentz@ucsd.edu)

858-822-5574

**UC San Diego**  
SKAGGS SCHOOL OF PHARMACY  
AND PHARMACEUTICAL SCIENCES

# Post-Graduate Education Series

---

- **General Overview of Post-graduate Education** - Dr. Charles Daniels
- **Planning for Residencies** - Dr. Kelly Lee
- **Fellowship Programs and Career Tracks** - Dr. Joe Ma
- **Panel of Former Fellows** - Dr. Joe Ma (facilitator)
- **CV Overview** - Dr. Sarah Lorentz
- **Building a Career in Community Pharmacy Practice**- Dr. Isabel Perlas-Buckton
- **Perspective From a Pharmacy Recruiter: Mapping Your Career Path**-  
Lori Wallace
- **The Residency Application Process** - Dr. Felix Yam
- **Introduction to PhORCAS** - Dr. Marcie Lepkowsky
- **Residency Showcase/Resident Q&A Panel/Workshops**
  - This event is co-sponsored by SSPPS CSHP-UCSD Professional Affairs Committee
- **CV Review/CV Fest** - Drs. Sarah Lorentz and Sarah McBane
  - This event is co-sponsored by SDCPhA
- **The Interviewing Process** - Dr. Juan Toledo
- **Mock Interviews** - planned by Dr. Juan Toledo at SSPPS and UCSD Medical Centers
- **Interviewing Tips** - Dr. Brad Colwell
- **Preparing for Match and Scramble Process** - Dr. Marcie Lepkowsky
  - This event is sponsored CSHP-UCSD Professional Affairs Committee
- **Life at the end of the Yellow Brick Road**-Dr. Colbert



# Post-Graduate Education Series Overview

---

1. Identified faculty, preceptors, and pharmacists from community organizations with residency preceptor experience
2. Received support from student organizations and outreach from current residents and fellows
3. Established collection of current post-graduate planning books on reserve at Biomedical Library
4. Developed schedule for P-4 students with the support of class leaders
5. Created program website with calendar, PowerPoints, resources, and residency sites of alumni
6. Provided voluntary student program in early evening hours, after rotation for P-4 students
7. Communicated updates regarding program scheduling via emails from student leaders
8. Invited interested P-3 students to general overview program presentations
9. Added introductory talk for P-2 and P-3 students in the fall of each year