

University of Washington Postdoctoral PharmD HEOR Fellowships Information Session

September 27, 2021
5-6 pm PST



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School of Pharmacy



AGENDA

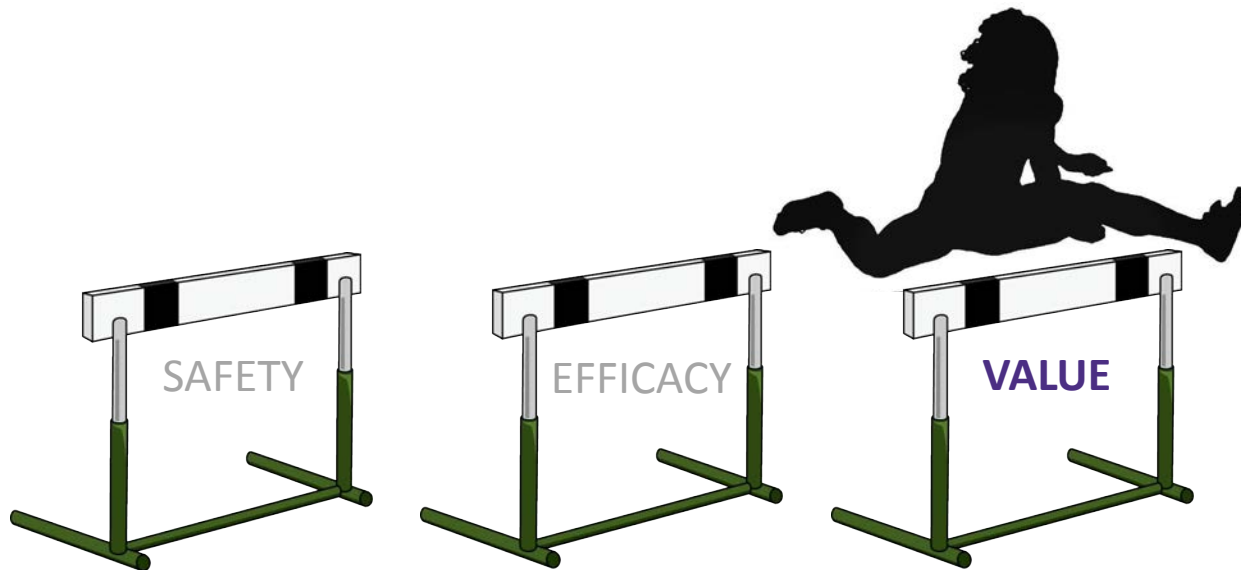
- > What is health economics and outcomes research (HEOR)?
- > University of Washington fellowship programs
- > Industry partners
- > Application process
- > Q & A

Please keep your microphone muted and submit questions in the chat box. We look forward to discussing your questions during the Q&A session!

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HEOR IN INDUSTRY: DEMONSTRATING VALUE



Regulatory approval is necessary but *insufficient* for product success and ultimately, patient access

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WHAT DRIVES VALUE FOR A TREATMENT?

Burden of Illness / Unmet need

Incidence/prevalence

Diagnostic & Treatment Patterns

Novelty

Gaps in Care

Limitations in Existing Treatments

Efficacy, Safety & Real-World Evidence

Safety

Efficacy

Comparative effectiveness

Adherence/persistence

Patient-Centered Outcomes

Patient Preferences

Patient- Reported Outcomes

QoL/HRQoL

Productivity

Convenience

Economic Value & Affordability

Budget impact

Healthcare resource utilization and costs

Cost- Effectiveness Analyses



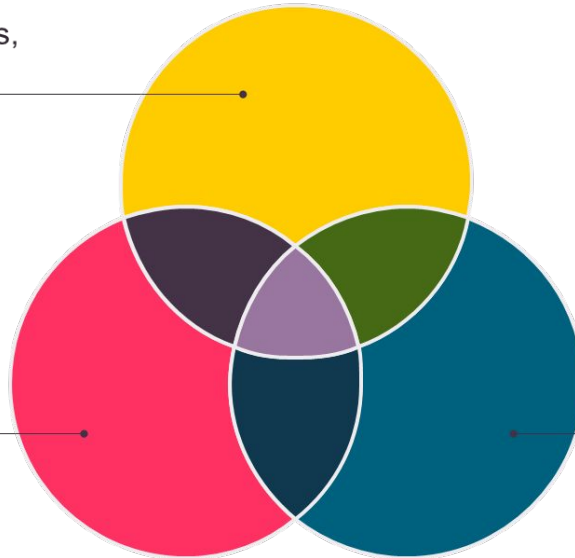
WHAT IS HEOR?

Real world evidence

(i.e., retrospective claims/EMR analysis, predictive modeling)

Economic evaluation

(i.e., budget impact models, cost-effectiveness analysis, collaboration with or in support of ICER reviews)



Patient-reported outcomes & comparative effectiveness

(i.e., clinical outcomes assessment, indirect treatment comparisons / network meta-analyses)



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OVERVIEW OF FELLOWSHIP PROGRAMS

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The Comparative Health Outcomes, Policy, and Economics (CHOICE) Institute

- The CHOICE Institute is housed within the UW School of Pharmacy
 - > **Our Mission:**
 - **Research:** Develop innovative methods and generate actionable evidence about the effectiveness, safety, and value of medical products and services that improve decision making in health care and policy.
 - **Training:** Provide transformative training in health economics, outcomes research, and policy analysis to meet contemporary health care challenges regionally, nationally, and globally.
 - **Service:** Be a leading resource on the effectiveness, safety, and value of medical products and services by providing expertise and facilitating collaborations at the regional, national, and global level.

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Fellowship Program Faculty



Anirban Basu, PhD
Stergachis Family Endowed
Director,
Professor



**David Veenstra, PharmD,
PhD**
Associate Director,
Professor



**Beth Devine, PharmD, PhD,
MBA**
Director of Graduate Program,
Professor (on sabbatical)



Josh Carlson, MPH, PhD
Interim Director of
Graduate Program,
Associate Professor



**Ryan Hansen,
PharmD, PhD**
Director of Fellowships,
Associate Professor



**Zachary Marcum,
PharmD, PhD**
Associate Professor,
Assistant Director for
Research - Plein Center



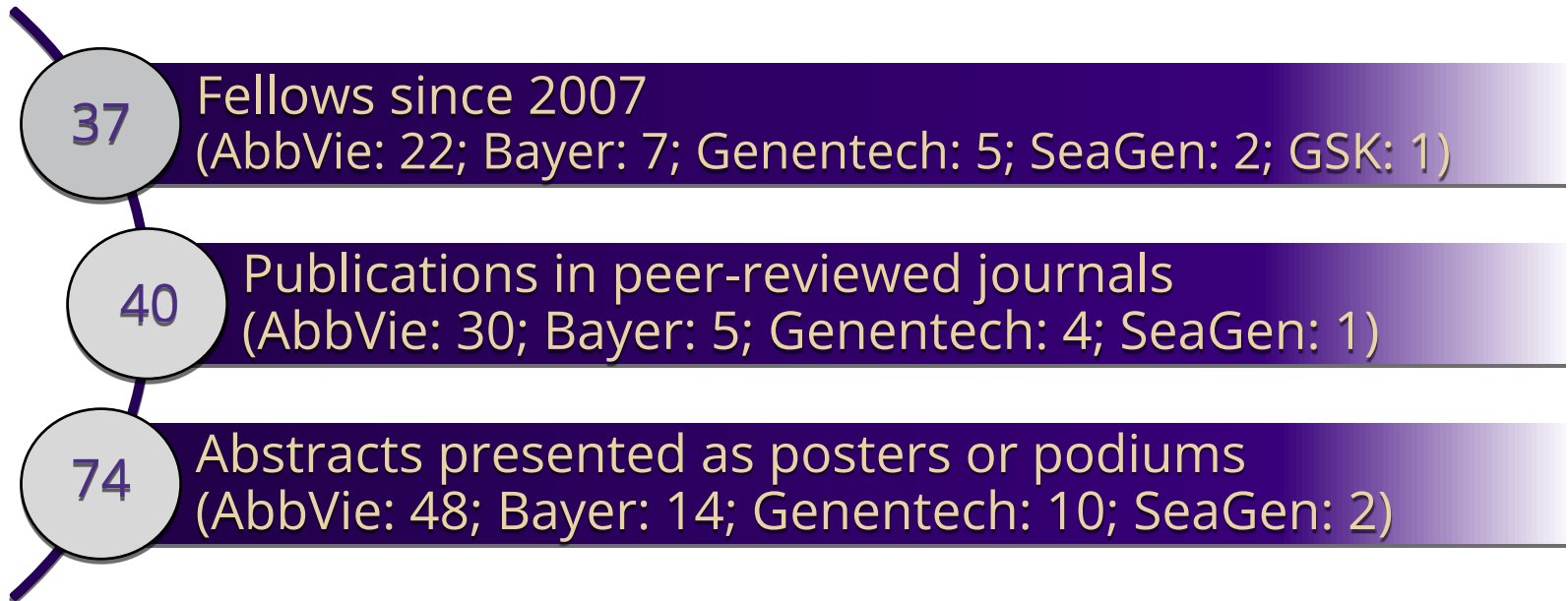
Douglas Barthold, PhD
Research Assistant Professor,
CHOICE Faculty Fellow

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FELLOWSHIP PROGRAM HISTORY



FELLOWSHIP STRUCTURE: 2 YEARS

YEAR ONE: UNIVERSITY OF WASHINGTON (MS)

- Gain principles and methods of HEOR through rigorous courses in biostatistics, epidemiology, economic evaluation, and outcomes research
- Complete MS thesis
- Present congress posters and/or publish manuscripts
- MS degree in HEOR awarded upon completion

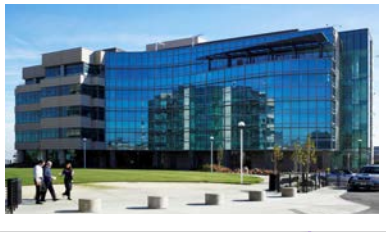
YEAR TWO: INDUSTRY

- Demonstrate product value utilizing strategically-focused HEOR
- Understand role of HEOR in drug development and commercialization
- Collaborate cross-functionally (medical affairs/communication, market access/brand strategy, regulatory affairs, clinical development) and with external vendors



INDUSTRY PARTNERS

UW (Seattle, WA)



Genentech
(South San Francisco, CA)



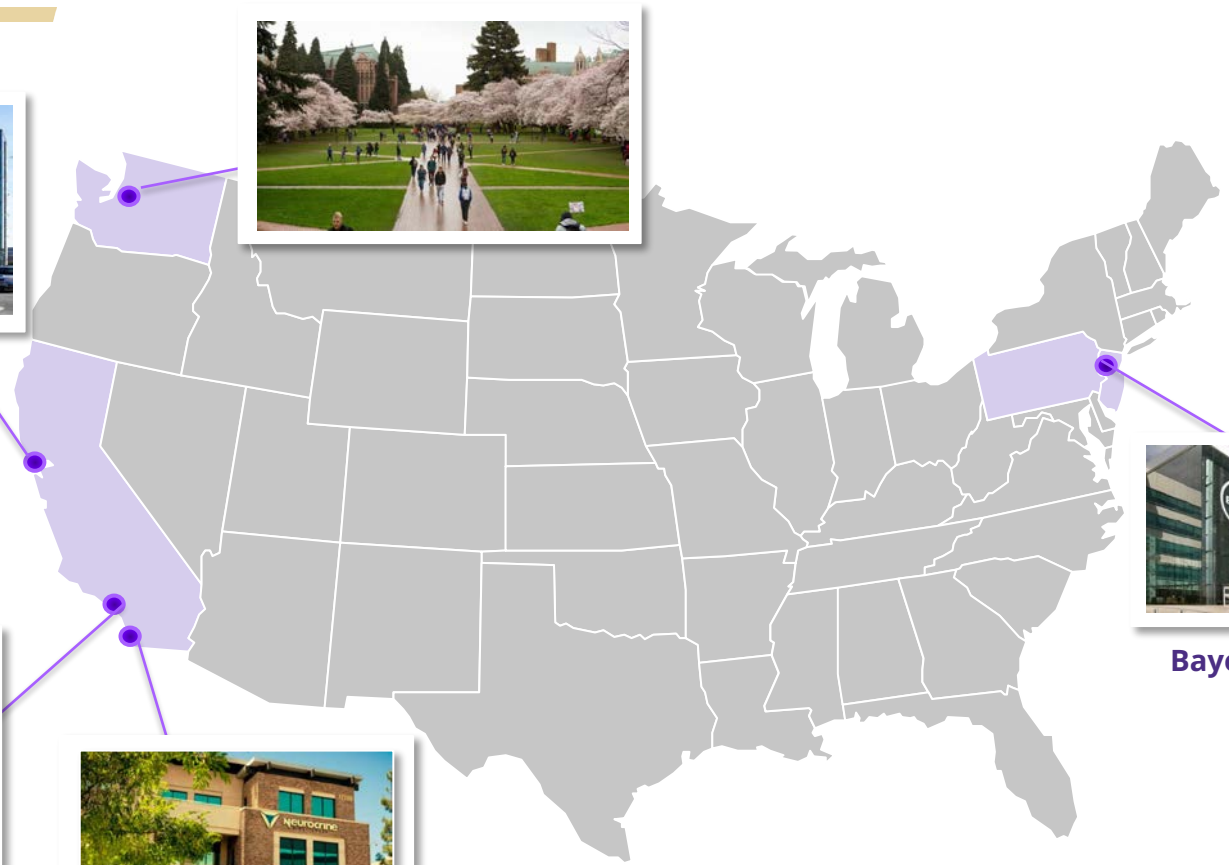
AbbVie (Irvine, CA)



Neurocrine
(San Diego, CA)



Bayer (Whippany, NJ)



FELLOWSHIP PROGRAMS

	BAYER (est. 2014)	ABBVIE (est. 2007)	GENENTECH (est. 2018)	NEUROCRINE (est. 2021)
1ST Year Location	Seattle, WA			
2ND Year Location	Whippany, NJ	Irvine, CA Madison, NJ	South San Francisco, CA	San Diego, CA
Number of positions	1	2	2	1
Program Length	2 years			
Programs Offered	US HEOR	Global HEOR	US HEOR	US MA-HEOR
Eligibility	Degree in Pharmacy and Experience in HEOR			

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UW/ABBVIE LEADERSHIP

abbvie



UW

Beth Devine, PharmD, MBA,
PhD, FASHP
Professor & Director of
Graduate Program



ABBVIE

Amy Tung, PharmD, MS
Associate Director, Toxin Therapeutics,
HEOR

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CURRENT FELLOWS

abbvie



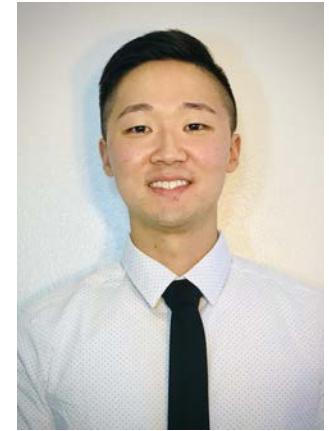
**Annaliza
Dominguez,
PharmD, MS**



**Gina Ahmadyar,
PharmD**



**Kim Cai,
PharmD, MS**



**Tae Jin Park,
PharmD, MS**

1st year

2nd year



Therapeutic Areas & Projects

Therapeutic Areas

- Neurology
- Ophthalmology
- Psychiatry
- Toxin therapeutics
- Aesthetics
- Gastrointestinal
- Oncology
- Immunology

Projects

- Patient reported outcome (PRO) validation
- Real world evidence (RWE): persistence, switch, combo
- AMCP Dossiers and economic modeling (budget impact, Markov)

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UW/BAYER LEADERSHIP



UNIVERSITY OF WASHINGTON

Ryan Hansen, PharmD, PhD
Associate Professor,
Director of Fellowships



BAYER PHARMACEUTICALS

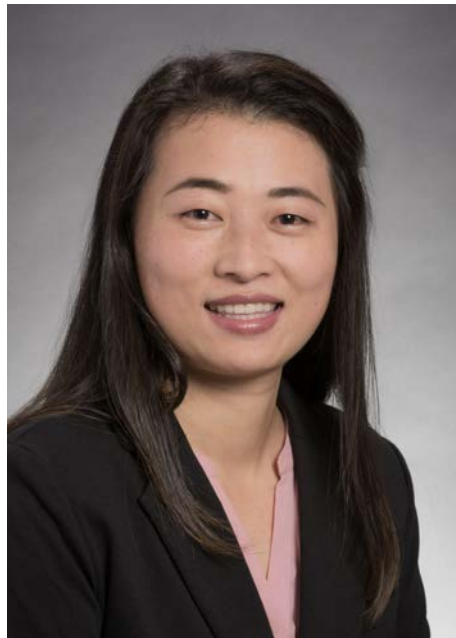
Sheldon Kong, PhD
Head of Research
Strategy,
Data Generation &
Observational Studies



Rakesh Singh, PhD, MS
Director,
Data Generation &
Observational Studies



CURRENT FELLOWS



Qixin Li (Sandy), PharmD

1st year



Gilbert Ko, PharmD, MBA, MS

2nd year





Therapeutic Areas & Projects

Therapeutic areas

- **Cardiorenal**
- **Oncology**
- **Women's Health**
- **Cardiopulmonary**
- **Hematology**
- **Early Pipeline**

Projects

- **Data visualization dashboard**
- **Real-world evidence studies**
- **AMCP Dossier and budget impact model (BIM)**
- **Systematic literature reviews**

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UW/GENENTECH LEADERSHIP



UW

David Veenstra, PharmD, PhD
Professor,
Associate Director
The CHOICE Institute



UW

Zachary Marcum, PharmD, PhD
Associate Professor,
Assistant Director
Plein Center



GENENTECH

Jennifer Whiteley, EdD
Head of E4A OMNI
Neuroscience & Rare Disease,
US Medical Affairs



CURRENT FELLOWS



**Justin Nedzesky,
PharmD**

1st year



**Tommy Majda,
PharmD**



**Eunice Kim,
PharmD, MS**

2nd year



**Jenny Park,
PharmD, MS**



Therapeutic Areas & Projects

Therapeutic Areas

- Oncology
- Immunology
- Infectious Disease
- Ophthalmology
- Respiratory
- Rare Blood Disorders
- Neuroscience
- Rare Disease

Projects

- Real-world evidence studies
- AMCP dossier
- Budget impact model
- Cost-effectiveness analysis
- Cost calculator
- Discrete choice experiment
- Matching-adjusted indirect comparison
- Total cost of care analysis

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New Opportunity for 2022-2024

Neurocrine Biosciences Fellowship

- Medical Affairs - HEOR
- Contracting underway
- Application deadline may be slightly behind
- Year 2 in San Diego
- UW Mentors: Sean Sullivan and Ryan Hansen
- Neurocrine Mentors: Chuck Yonan, Mallory Farrar, Michael Serbin



Recent Fellowship Alumni: Career Outcomes

- > Brennan Beal, PharmD, MS (AbbVie 2019-2021)
 - Quantitative Scientist, Flatiron Health
- > Ashley Cha, PharmD, MS (Bayer 2019-2020)
 - Senior Manager, Global Health Economics & Outcomes Research, Pfizer
- > David Fox, PharmD, MS (Genentech 2019-2021)
 - Associate Health Economist, Genentech
- > Samuel Hong, PharmD, MS (Genentech 2019-2021)
 - Director, Global Health Economics & Outcomes Research at Agilent Technologies
- > Jae Hyun Lee, PharmD, MS (AbbVie 2019-2021)
 - Senior Manager in HEOR, AbbVie
- > Phoebe Wright, PharmD, MS (SeaGen 2019-2021)
 - Health Economics Manager, SeaGen
- > Ashley Kim, PharmD, MS (Allergan 2018-20)
 - Senior Manager, HEOR, GRAIL, Inc
- > Jamie Ta, PharmD, MS (Allergan 2018-2020)
 - Associate Health Economist, Genentech
- > Thomas Hopkins, PharmD, MS (Bayer 2018-2020)
 - Senior Manager, Global Evidence and Outcomes, Gastroenterology, Takeda
- > Eddie Neuberger, PharmD, MBA, MS (Genentech 2018-2020)
 - Associate Health Economist, Genentech

APPLICATION PROCESS

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OVERVIEW

- > **Eligibility:** Degree in Pharmacy by July 1, 2022
- > **Application Deadline:** October 29, 2021
- > **Interview Notification:** November 3, 2021
- > **Interviews:** Week of November 8, 2021
- > **Offer Notification:** November 12, 2021
- > **Program Start Date:** July 1, 2022

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APPLICATION & INTERVIEW TIPS

- > **Contact your recommenders early**
 - Include a “cheat sheet” about yourself and the program along with your request
- > **Submit a strong, focused, and well-edited CV**
 - Research skills
 - Data analysis skills
 - Relevant rotations, electives, courses, and presentations
 - Leadership experience
- > **Highlight any projects relevant to HEOR**
- > **Don't forget thank you emails**
- > **Relax! Be calm, be yourself!**

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HOW TO APPLY

- > Apply directly to the UW Graduate School
- > ASHP PPS will not be used this year
- > Go to: <https://grad.uw.edu/admission/apply-now/>
 - Create a Profile and New Application
 - Application Type: Graduate
 - Graduate Program: *Pharmacy – Health Economics & Outcomes Research (MS)*
 - Quarter and Year: Fall 2022
 - Areas of Interest: ***IMPORTANT*** add to indicate which fellowship program(s) you are applying to, select all that apply

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APPLICATION FOR ADMISSION

UNIVERSITY of WASHINGTON

The Graduate School

Program Information

1. Select your application type: [Help?]	Graduate ▼														
2. Select your graduate program:	Pharmacy - Health Economics & Outcomes Research (MS)														
3. Indicate the quarter and year you wish to enter:	<-- Please Select --> ▼														
4. Select area(s) of interest: (Please select a minimum of 1 and a maximum of 4 areas of interest. You do not need to choose in order of priority.)	<table border="1"><tr><td>1.</td><td><-- Please Select --> ▼</td></tr><tr><td>2.</td><td><-- Please Select --></td></tr><tr><td>3.</td><td>AbbVie Fellowship Program</td></tr><tr><td></td><td>Bayer Fellowship Program</td></tr><tr><td>4.</td><td>Genentech Fellowship Program</td></tr><tr><td></td><td>Neurocrine Biosciences Fellowship Program</td></tr><tr><td></td><td><-- Please Select --> ▼</td></tr></table>	1.	<-- Please Select --> ▼	2.	<-- Please Select -->	3.	AbbVie Fellowship Program		Bayer Fellowship Program	4.	Genentech Fellowship Program		Neurocrine Biosciences Fellowship Program		<-- Please Select --> ▼
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3.	AbbVie Fellowship Program														
	Bayer Fellowship Program														
4.	Genentech Fellowship Program														
	Neurocrine Biosciences Fellowship Program														
	<-- Please Select --> ▼														

Enter all that apply
(not ranked)





Steps to Complete
✓ Select Your Graduate Program
✓ Review Requirements and Deadlines
✓ Report Prior Schools
Submit Unofficial Transcripts
Submit Resume or Vitae
Submit Statement of Purpose
Designate Recommendations
Review Checklist of Application Materials
Verify Personal Data
Pay Application Fee
Submit Application
✓ Marks the step as complete

Report Prior Schools

Please enter ALL schools you attended, **including the University of Washington.**

School Name	Dates Attended	Degree Name	Major Field	Action
UNIV OF WASHINGTON	9/2017 – 6/2022	PHARMD	PHARMACY	edit delete
Add a school				



Application Fee Waiver Information

- > Financial Need Fee Waivers are available through the Graduate School
- > Fee waiver requests must be submitted at least 7 days before the deadline!
- > Washington State Need Grant Program eligibility criteria is used to determine financial need.
 - Waivers are based on the 100% Median Family Income (MFI).
 - Reported income should be based on the most recent tax year.
- > For more information on how to request a waiver:
<https://grad.uw.edu/admission/application-fee-waivers/>

Q&A

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COMMON QUESTIONS

- > **What are the characteristics you are looking for a candidate for your fellowship program?**
- > **Will your program be remote or in person for next year?**
- > **Are international students eligible to apply?**
- > **How do I best prepare for interviews?**
- > **What should I prioritize when deciding between companies?**
- > **How much do the different positions vary?**
- > **Who should we address letters of intent to?**
- > **How can I stand out as a candidate?**

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CONTACT US

- > **Marina Gano and Ashley Davis**
The CHOICE Institute Staff Team
Department of Pharmacy
206-616-1383
uwsopchoice@uw.edu

- > **Ryan Hansen, PharmD, PhD**
Associate Professor & Director of Industry Fellowships
The CHOICE Institute, Department of Pharmacy
rhansen@uw.edu

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THANK YOU!

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