

abbvie



Genentech  
*A Member of the Roche Group*

 Seagen

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# University of Washington

## Postdoctoral PharmD HEOR Fellowships

### Information Session

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September 26, 2022  
5-6 pm PST

THE CHOICE INSTITUTE

School of Pharmacy



# AGENDA

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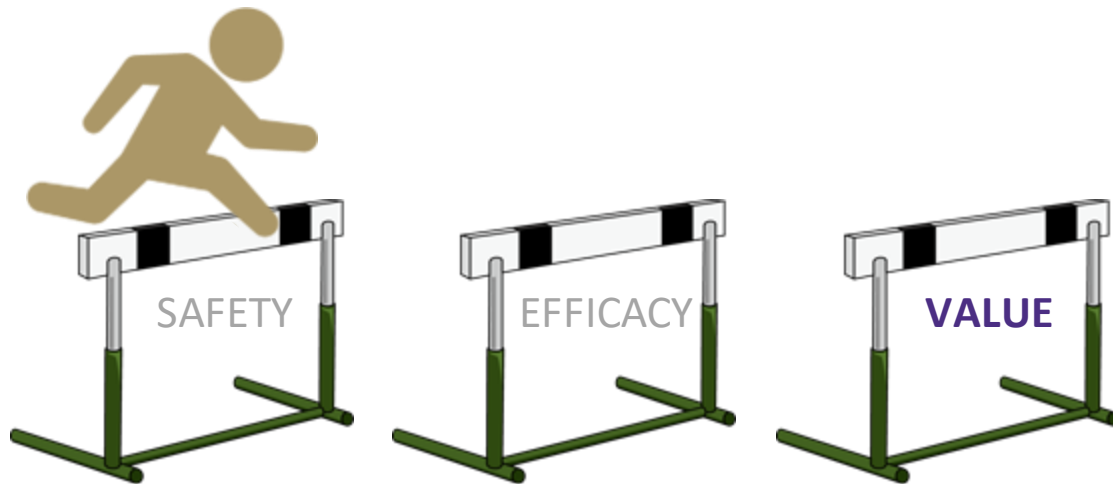
- > Brief overview of HEOR (Health Economics and Outcomes Research)
- > University of Washington (UW) fellowship programs
- > Industry partners
- > Application process
- > Q & A

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



# HEOR IN INDUSTRY: DEMONSTRATING VALUE

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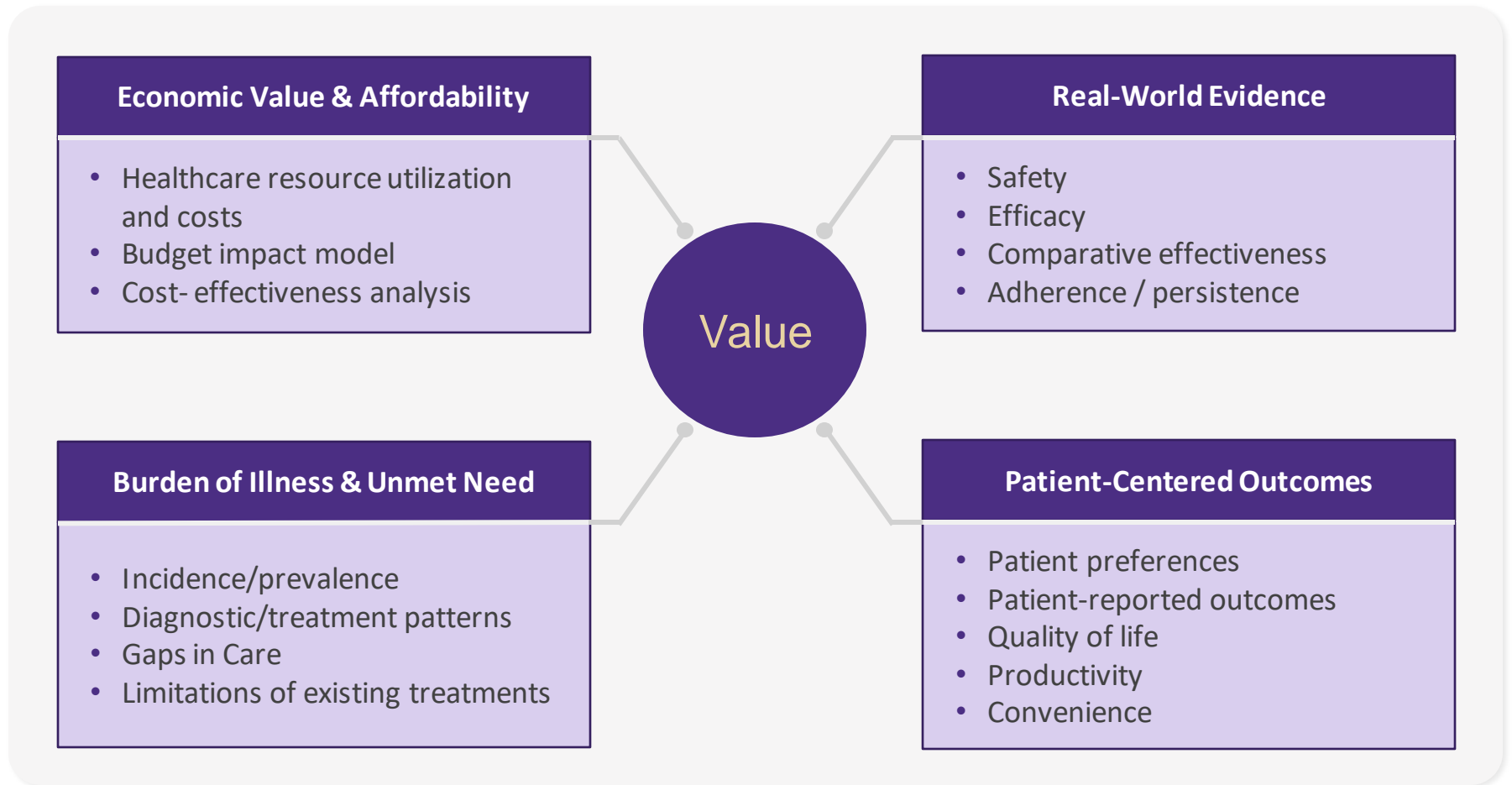


Regulatory approval is necessary but *insufficient* for patient access



# WHAT DRIVES VALUE FOR A TREATMENT?

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# OVERVIEW OF FELLOWSHIP PROGRAMS

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THE CHOICE INSTITUTE

School of Pharmacy



# THE CHOICE INSTITUTE

(COMPARATIVE HEALTH OUTCOMES, POLICY, AND ECONOMICS)

## 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

CHOICE is housed within the UW School of Pharmacy

# FELLOWSHIP PROGRAM FACULTY

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**Anirban Basu, PhD**  
Stergachis Family Endowed  
Director, Professor



**Beth Devine, PharmD,  
PhD, MBA**  
Associate Director, Shirley & Herb  
Bridge Endowed Professor



**Sean D. Sullivan,  
BScPharm, MSc, PhD**  
Professor



**David Veenstra,  
PharmD, PhD**  
Professor



**Josh Carlson, MPH, PhD**  
Professor,  
Graduate Program Director



**Ryan Hansen,  
PharmD, PhD**  
Interim Chair,  
Associate Professor



**Aasthaa Bansal, PhD**  
Associate Professor



**Douglas Barthold, PhD**  
Research Assistant Professor,  
CHOICE Faculty Fellow

# FELLOWSHIP PROGRAM HISTORY

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43

Fellows since  
2007

47

Publications in  
peer-reviewed  
journals

74

Abstracts presented as  
posters or podiums





# FELLOWSHIP STRUCTURE

## 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 (real-world data analysis)
- 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
- Manage external vendors

### Fellowship Benefits:

Competitive stipend, insurance, relocation assistance, travel support, and full tuition coverage of the MS degree.



# PROGRAM STRUCTURE



UW (Seattle, WA)



Seagen (Bothell, WA)



Genentech (South San Francisco, CA)



AbbVie (Irvine, CA)  
Option 1



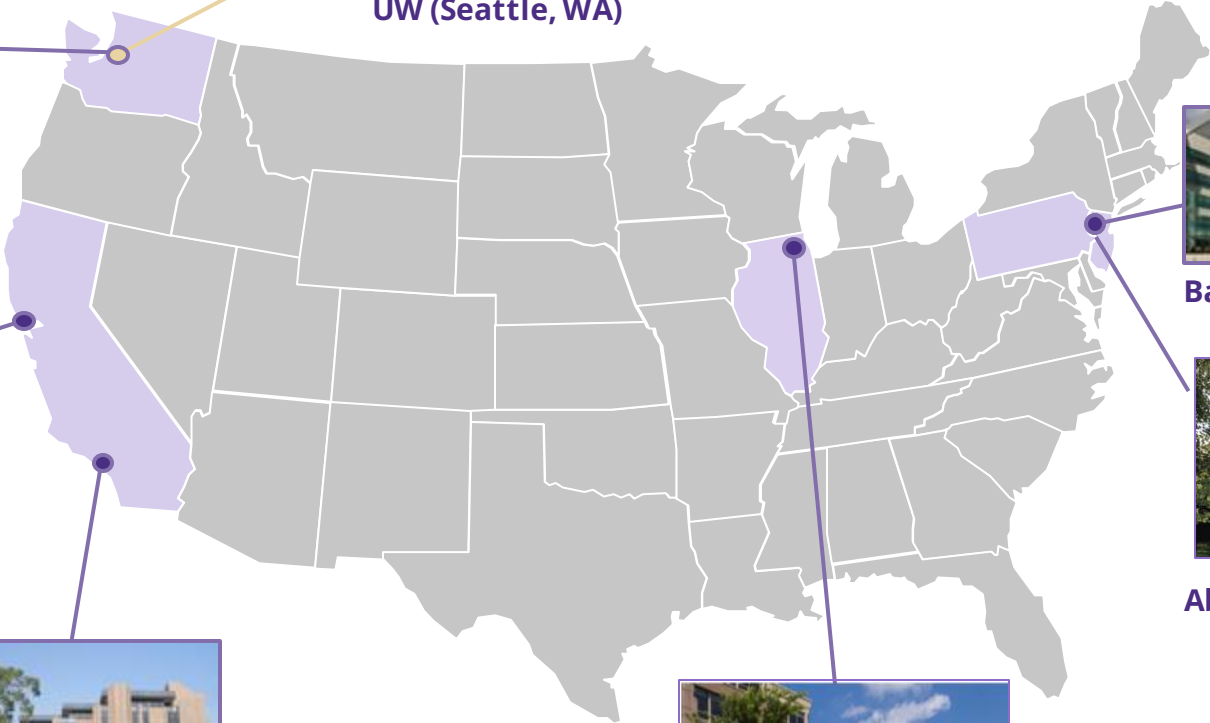
AbbVie (Lake County, IL)  
Option 2



Bayer (Whippany, NJ)



AbbVie (Madison, NJ)  
Option 3



# FELLOWSHIP COMPARISON

	<b>Bayer</b> (est. 2014)	<b>AbbVie</b> (est. 2007)	<b>Genentech</b> (est. 2018)	<b>Seagen</b> (est. 2019)
<b>1<sup>ST</sup> Year Location</b>	Seattle, WA			
<b>2<sup>ND</sup> Year Location</b>	Whippany, NJ	Irvine, CA Madison, NJ Lake County, IL	South San Francisco, CA	Seattle, WA
<b>Number of positions</b>	1	2	2	1
<b>Program Length</b>	2 years			
<b>Programs Offered</b>	US HEOR	Global HEOR	US HEOR	Global HEOR
<b>Eligibility</b>	Degree in Pharmacy and Experience in HEOR			

# UW/ABBVIE LEADERSHIP

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**UW**

Beth Devine, PharmD, MBA, PhD, FASHP  
Associate Director of CHOICE, Shirley &  
Herb Bridge Endowed Professor



**ABBVIE**

Amy Tung, PharmD, MS  
Director, HEOR Strategy



**ABBVIE**

Jae Lee, PharmD, MS  
Senior Manager, HEOR Strategy



# CURRENT FELLOWS

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**Jae Kim,  
PharmD**



**Zach Baldwin,  
PharmD**

**1<sup>st</sup> year**



**Annaliza Dominguez,  
PharmD, MS**



**Gina Ahmadyar,  
PharmD, MS**

**2<sup>nd</sup> year**



# Therapeutic Areas & Projects

## Therapeutic Areas (TA)

- Neuroscience
- Ophthalmology
- Psychiatry
- Toxin therapeutics
- Aesthetics
- Regenerative Medicine
- Gastrointestinal
- Oncology
- Immunology

## Projects

- Patient reported outcome (PRO): design, validation
- Real world evidence (RWE): treatment patterns, HCRU
- Economic modeling (budget impact, Markov)
- Indirect treatment comparisons

# UW/BAYER LEADERSHIP

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## UNIVERSITY OF WASHINGTON

Ryan Hansen, PharmD, PhD  
Interim Department Chair  
Associate Professor



## BAYER PHARMACEUTICALS

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



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





## CURRENT FELLOWS

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**Arvind Katta, PharmD**

**1<sup>st</sup> year**



**Qixin Li (Sandy), PharmD, MS**

**2<sup>nd</sup> year**







# Therapeutic Areas & Projects

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## 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**

# UW/GENENTECH LEADERSHIP

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**UW**

David Veenstra, PharmD, PhD  
Professor



**UW**

Aastha Bansal, PhD  
Associate Professor



**GENENTECH**

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



## CURRENT FELLOWS

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**Spencer Cheng,  
PharmD**



**Stella Ko,  
PharmD**

**1<sup>st</sup> year**



**Tommy Majda,  
PharmD, MS**



**Justin Nedzesky,  
PharmD, MS**

**2<sup>nd</sup> year**



# Therapeutic Areas & Projects

## Therapeutic Areas

- Oncology
- Neuroscience
- Ophthalmology
- Immunology
- Rare Disease
- Infectious Disease

## Projects

- Burden of illness
- Real-world evidence
- Cost-effectiveness analysis
- Budget impact modeling
- Cost calculator
- Time to event analysis
- Patient/provider surveys
- Literature review

## UW/SEAGEN LEADERSHIP

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**UW**

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



**SEAGEN**

Zsolt Hepp, PharmD, MS  
Senior Director, HEOR  
(US & International)



## PREVIOUS FELLOWS

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**2019 - 2021**

Phoebe Wright, PharmD, MS  
Seagen Manager, HEOR  
(US & International)



**2020 - 2022**

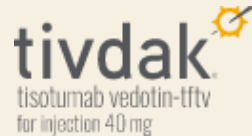
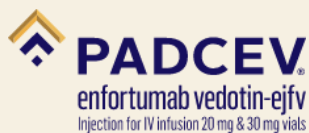
Jacob Silvers, PharmD, MS  
Operations Research/Systems  
Analyst, U.S. Army



# Therapeutic Areas & Projects

## Oncology Products

- **Marketed Products**



- **Extensive Pipeline Assets**

- ❖ **Heme Oncology**
- ❖ **Solid Tumor Oncology**

## Experiences

- **Systematic Literature Reviews**
- **Launch Experience**
- **Patient Reported Outcomes (PROs) in Clinical Trials**
- **Real World Evidence (RWE)**
- **Economic Modeling**
- **Ad-Board and Other KOL Interactions**

# Recent Fellowship Alumni: Career Outcomes

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- > **Brennan Beal, PharmD, MS (AbbVie 2019-2021)**
  - Quantitative Scientist, Flatiron Health
- > **Gilbert Ko, PharmD, MBA, MS (Bayer 2020-2022)**
  - Manager, Data Generation & Observational studies Research Strategy, Bayer
- > **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)**
  - Manager, HEOR, 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)**
  - HEOR Scientist, Seagen



# APPLICATION PROCESS

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THE CHOICE INSTITUTE

School of Pharmacy



# OVERVIEW

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- > **Eligibility:** Degree in Pharmacy by July 1, 2023
  - Must hold U.S. citizenship or permanent residency status to apply
- > **Application Deadline:** October 28, 2022
- > **Interview Notification:** November 2, 2022
- > **Virtual Interviews:** Week of November 7, 2022
- > **Offer Notification:** November 11, 2022
  - Decisions requested by November 14 and 15, 2022
- > **Program Start Date:** July 1, 2023



# APPLICATION & INTERVIEW TIPS

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- > **Contact your recommenders early**
  - Include a “cheat sheet” about yourself, the program, and why you are applying to the program along with your recommendation 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!**



# HOW TO APPLY

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- > ASHP PPS will NOT be used this year
- > Apply directly to the UW Graduate School
- > 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 2023
  - Areas of Interest: **\*IMPORTANT\*** add to indicate which fellowship program(s) you are applying to, select all that apply





# 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:	Fall 2023										
4. Select area(s) of interest: (Please select a <b>minimum of 1</b> 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><input checked="" type="checkbox"/> &lt;-- Please Select --&gt;</td></tr><tr><td>2</td><td><input type="checkbox"/> AbbVie Fellowship Program</td></tr><tr><td>3</td><td><input type="checkbox"/> Bayer Fellowship Program</td></tr><tr><td>4</td><td><input type="checkbox"/> Genentech Fellowship Program</td></tr><tr><td></td><td><input type="checkbox"/> SeaGen Fellowship Program</td></tr></table>	1	<input checked="" type="checkbox"/> <-- Please Select -->	2	<input type="checkbox"/> AbbVie Fellowship Program	3	<input type="checkbox"/> Bayer Fellowship Program	4	<input type="checkbox"/> Genentech Fellowship Program		<input type="checkbox"/> SeaGen Fellowship Program
1	<input checked="" type="checkbox"/> <-- Please Select -->										
2	<input type="checkbox"/> AbbVie Fellowship Program										
3	<input type="checkbox"/> Bayer Fellowship Program										
4	<input type="checkbox"/> Genentech Fellowship Program										
	<input type="checkbox"/> SeaGen Fellowship Program										

Enter all that apply  
(not ranked)





# APPLICATION FOR ADMISSION

UNIVERSITY of WASHINGTON

The Graduate School

Applying To: Pharmacy - Health Economics & Outcomes Research (MS) Fall 2023

Deadline: October 28

Type: Graduate/Domestic

Application Id:

[Update Your Profile](#) | [Logout](#)

## 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 And 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
University of Washington - Seattle	August 2019 - May 2023	PHARM.D	Pharmacy	edit   delete
Add a school				



# Application Fee Waiver Information

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- > 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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THE CHOICE INSTITUTE

School of Pharmacy

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# CONTACT US

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> **The CHOICE Institute Staff Team**

Department of Pharmacy

206-616-1383

[uwsopchoice@uw.edu](mailto:uwsopchoice@uw.edu)

> **Beth Devine, PhD, PharmD, MBA**

Associate Director, The CHOICE Institute

Shirley & Herb Bridge Endowed Professor of Pharmacy

[bdevine@uw.edu](mailto:bdevine@uw.edu)

THE CHOICE INSTITUTE

School of Pharmacy

# THANK YOU!

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