University of Washington Postdoctoral PharmD HEOR Fellowships Information Session

September 27, 2021
5-6 pm PST
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)
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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School of Pharmacy
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

- Fellows since 2007: 37 (AbbVie: 22; Bayer: 7; Genentech: 5; SeaGen: 2; GSK: 1)
- Publications in peer-reviewed journals: 40 (AbbVie: 30; Bayer: 5; Genentech: 4; SeaGen: 1)
- Abstracts presented as posters or podiums: 74 (AbbVie: 48; Bayer: 14; Genentech: 10; SeaGen: 2)
**FELLOWSHIP STRUCTURE: 2 YEARS**

<table>
<thead>
<tr>
<th>YEAR ONE: UNIVERSITY OF WASHINGTON (MS)</th>
<th>YEAR TWO: INDUSTRY</th>
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<tbody>
<tr>
<td>• Gain principles and methods of HEOR through rigorous courses in biostatistics, epidemiology, economic evaluation, and outcomes research</td>
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<td>• Complete MS thesis</td>
<td>• Demonstrate product value utilizing strategically-focused HEOR</td>
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<td>• Present congress posters and/or publish manuscripts</td>
<td>• Understand role of HEOR in drug development and commercialization</td>
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<tr>
<td>• MS degree in HEOR awarded upon completion</td>
<td>• Collaborate cross-functionally (medical affairs/communication, market access/brand strategy, regulatory affairs, clinical development) and with external vendors</td>
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INDUSTRY PARTNERS

- AbbVie (Irvine, CA)
- Genentech (South San Francisco, CA)
- UW (Seattle, WA)
- Neurocrine (San Diego, CA)
- Bayer (Whippany, NJ)
# Fellowship Programs

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<tr>
<td>1st Year Location</td>
<td></td>
<td>Seattle, WA</td>
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<tr>
<td>2nd Year Location</td>
<td>Whippany, NJ</td>
<td>Irvine, CA</td>
<td>South San Francisco, CA</td>
<td>San Diego, CA</td>
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<tr>
<td>Number of positions</td>
<td>1</td>
<td>2</td>
<td>2</td>
<td>1</td>
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<tr>
<td>Program Length</td>
<td></td>
<td>2 years</td>
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<td>Programs Offered</td>
<td>US HEOR</td>
<td>Global HEOR</td>
<td>US HEOR</td>
<td>US MA-HEOR</td>
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<td>Eligibility</td>
<td>Degree in Pharmacy and Experience in HEOR</td>
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UW/ABBVIE LEADERSHIP

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

**ABBVIE**
Amy Tung, PharmD, MS
Associate Director, Toxin Therapeutics, HEOR
CURRENT FELLOWS

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)
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

- 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
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
# 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.)

   - [-- Please Select --]
   - AbbVie Fellowship Program
   - Bayer Fellowship Program
   - Genentech Fellowship Program
   - Neurocrine Biosciences Fellowship Program

Enter all that apply (not ranked)
Upload all application materials and submit by the Oct 29 deadline!

Application Fee: $85.00
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/
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?
CONTACT US

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The CHOICE Institute Staff Team  
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THANK YOU!

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