**Duncan Dobbins, PharmD, BSPF**

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**Summary**

Passionate postdoctoral research fellow leveraging a comprehensive skill set in clinical pharmacy, health systems science, research, and information technology. Fourth-generation pharmacist with a backbone in community pharmacy and emergent skills in data management, health informatics, health services research and system redesign.

**Education**

Master of Health Informatics Candidate, Wake Forest, Winston-Salem, NC 2023-2025  
 Doctor of Pharmacy, Duquesne, Pittsburgh, PA 2017-2023  
 B.S. in Pharmacy Foundations, Duquesne, Pittsburgh, PA 2017-2023

**Current Position**

Postdoctoral Fellow in Health System Science June 2023-2025

Center for Pharmacy Innovation and Outcomes, Geisinger

Forty Fort, PA

**Clinical / Quality Improvement Activities**

Centralized Clinical Pharmacy Services (CCPS)

* Executed remote clinical pharmacy services as a Telepharmacist, effectively collaborating with leadership to scale prior authorization services.
* Innovated & developed workflows, identified automation opportunities, FTE justifications and conducted data analysis to demonstrate improved efficiency and outcomes compared to traditional in-clinic authorizations.

Clinical Care-Path Team

* Active member of a multidisciplinary team to systematically align clinical practice, evidence-based medicine and integrated pharmacy services for clinical, financial, and operational value.
* Managing high-cost medication utilization across numerous disease states through stakeholder consultations & comparative clinical trial evaluations.

**Professional Development**

Health System Science Leadership Course September 2023- May 2024

Center for Faculty and Professional Development

Geisinger College of Health Sciences

* Formerly known as ILEED (Improving the Learning Environment through Educators).
* Completed rigorous coursework in leadership, health system science, design thinking, population health, data for improvement, and change management.
* Developed and honed skills in resource acquisition, program evaluation, and formal leadership, with a focus on system-based practice and hands-on experience to transform concepts into tangible results.
* Presented research project titled "Cutting Cost, Not Corners: Addressing Scheduling and Referral Inefficiencies in the Orthopedic Clinic," successfully quantifying financial impacts of inappropriate scheduling & referrals while proposing improvements through customized referral logic with AI enhancements.

**Professional Memberships and Committees**

ACCP (American College of Clinical Pharmacy)

* PRNs: Health Outcomes, Ambulatory Care, Community-Based, Post-grads
* Chair- National Resident/Fellow Advisory Committee

APhA (American Pharmacist Association)

ASHP (American Society of Health-system Pharmacists)

HCSRN (Health Care Systems Research Network)

HIMSS (Healthcare Information & Management Systems Society)

**Honors and Awards**

Pharmaceutical Science Research Award April 2022

Research & Scholarship Symposium

Duquesne University Office of Research & Innovation

Neurodegenerative Undergraduate Research Experience Summer 2021

Competitive, NIH funded, summer fellowship in with a national pool of applicants

Duquesne University

**Academic Presentations**

**Invited Presentations**

**Local**

1. **Dobbins DX**, Pallis M, Poler SM. *Cutting Costs, Not Corners: Addressing Scheduling & Referral Inefficiencies in Orthopedic Clinic*. Oral presentation at: Geisinger Educational Scholarship Symposium; 2024 May 8: Danville, PA.
2. **Dobbins DX**. *Pharmacy Benefit Mangers: Allies or Adversaries of Drug Pricing?*. Lecture presentation at: Geisinger Commonwealth School of Medicine ShareTalk Series; 2024 March 11.
3. Dave KM**, Dobbins DX**, Milosevik J, Kim J, Zheng S, Manickam DS. *Engineering Extracellular Vesicles With an Enriched Mitochondrial Load*. Poster presentation at: Duquesne University Undergraduate Research and Scholarship Symposium; 2022 April: Pittsburgh, PA.
4. **Dobbins DX,** Dave KM, Manickam DS. *Mitochondrial Transfer from Extracellular Vesicles to Brain Endothelial Cells- A Promising Therapy for Ischemic Stroke*. Virtual podium presentation at: Duquesne University Neurodegenerative Undergraduate Research Experience; 2021 July: Pittsburgh, PA.

**National**

1. **Dobbins DX**, Bachhuber MA, Piper BJ, Wright EA. *Dollars, Drugs and Decision Makers: Pharmaceutical Company Payments to Preferred Drug List Selection Committees*. Webinar presentation at: ACCP Health Outcomes PRN Webinar; 2024 June 26.
2. **Dobbins DX**, Bachhuber MA, Piper BJ, Wright EA. *Money, Medicine, and Medicaid: Pharmaceutical Company Payments to Preferred Drug List Selection Committees*. Oral presentation at: HCSRN 2024 Annual Conference; 2024 Apr 9-11: Milwaukee, WI.

**Animated Abstract**

**Creative Video Contest**

1. **Dobbins DX**. *Engineering Extracellular Vesicles with an Enriched Mitochondrial Load*. Submission to Duquesne University Undergraduate Research and Scholarship Symposium Creative Video Contest; 2022 April: Pittsburgh, PA. <https://youtu.be/Vjk4xFsRt98?si=LcKnN8yoA-4ssxaQ>

**Scholarship and Research: Peer Reviewed**

1. Dave KM, Stolz DB, Venna VR, Quaicoe VA, Maniskas ME, Reynolds MJ, Babidhan R, **Dobbins DX**, Farinelli MN, Sullivan A, Bhatia TN, Yankello H, Reddy R, Bae Y, Leak RK, Shiva SS, McCullough LD, & Manickam DS. (2023). Mitochondria-containing extracellular vesicles (EV) reduce mouse brain infarct sizes and EV/HSP27 protect ischemic brain endothelial cultures. Journal of controlled release : official journal of the Controlled Release Society, 354, 368–393.

<https://doi-org.geihsl.idm.oclc.org/10.1016/j.jconrel.2023.01.025>

1. Dave KM., **Dobbins DX**, Farinelli MN, Sullivan A, Milosevic J, Stolz DB, Kim J, Zheng S, & Manickam DS. (2022). Engineering Extracellular Vesicles to Modulate Their Innate Mitochondrial Load. Cellular and molecular bioengineering, 15(5), 367–389.

<https://doi.org/10.1007/s12195-022-00738-8>

1. D'Souza A, Burch A, Dave KM, Sreeram A, Reynolds MJ, **Dobbins DX**, Kamte YS, Zhao W, Sabatelle C, Joy GM, Soman V, Chandran UR, Shiva SS, Quillinan N, Herson PS, & Manickam DS. (2021). Microvesicles transfer mitochondria and increase mitochondrial function in brain endothelial cells. Journal of controlled release: official journal of the Controlled Release Society, 338, 505–526. <https://doi.org/10.1016/j.jconrel.2021.08.038>

**Scholarship and Research: Non-Peer Reviewed**

1. Dave KM, **Dobbins DX**, Manickam DS. (2022) Extracellular vesicles are a novel carrier for biotherapeutic cargo- and their innate mitochondria. Controlled Release Society Indian Chapter, Newsletter Volume 13, Pages 13-18. <https://crsic.org/newsetters/#crsic-2022-newsletter/14/>

**Experience(s)**

Postdoctoral Fellow in Health System Science June 2023-present

Fellowship Director: Eric Wright, PharmD

Center for Pharmacy Innovation and Outcomes, Geisinger

Forty Fort, PA

Hospital Administration, APPE Intern February 2023

Preceptor: Robert Reynolds, PharmD

St. Clair Hospital

Pittsburgh, PA

Population Health, APPE Intern January 2023

Preceptor: Jacob Reaser, PharmD

Highmark Health

Pittsburgh, PA

Emergency Medicine, APPE Intern November 2023

Preceptor: David Zimmerman, PharmD

UPMC Mercy

Pittsburgh, PA

Pharmacy Consulting, APPE Intern October 2023

Preceptor: Melissa Krause, PharmD

Pharmacy Healthcare Solutions

Perrysville, PA

Retail Pharmacy, APPE Intern September 2023

Preceptor: Gil Arbuckle, RPh

Rite Aid

Bethel Park, PA

Innovation & Ambulatory Pharmacy, APPE Intern August 2023

Preceptor: Robert Maher, PharmD

Klingensmith’s Drug Stores

Ford City, PA

Hospital Pharmacy, IPPE Intern August 2021

Preceptor: Marc Sciulli, PharmD

UPMC Shadyside

Pittsburgh, PA

Retail Pharmacy, IPPE Intern August 2020

Preceptor: Joni Jackson, PharmD

CVS/Target

Pittsburgh, PA

Independent Family Pharmacy, Technician 2013-2017

Owner: Sean Dobbins, RPh

Dobbins Drugs, Inc.

Lyons, NY

**Skills**

* Clinical Pharmacy
* Research & Data Analysis
* Health Informatics & Information Technology
* Project Management
* Proficient in all Microsoft Office applications
* Proficient in use of Large Language Models (LLMs): Strong understanding of Natural Language processing (NLP) applications and extensive experience with ChatGPT Plus and generative pre-trained transformer builds.
* Expert in Prompt Engineering
* Novice in R-Studio
* Scientific Artist and Graphic Design Expert: See <https://duncandobbins.com> for portfolio
  + Pradhan A, Wright E, Hayduk V, Berhane J, Sponenberg M, Webster L, Anderson H, Park S, Graham J, Friedenberg S
  + Impact of an Electronic Health Record–Based Interruptive Alert Among Patients With Headaches Seen in Primary Care: Cluster Randomized Controlled Trial
  + JMIR Med Inform 2024;12:e58456
  + URL: <https://medinform.jmir.org/2024/1/e58456>
  + DOI: 10.2196/58456

**Certification and Licensure**

* Pharmacy Licensure, Pennsylvania: RP458193
* NPI: 1851152664
* CITI- 8 certifications regarding research & clinical practice
* HIPPA
* Basic Life Support Program (CPR & AED), American heart Association
* Substance Abuse Certificate Training Program, PPA & Duquesne University
* Naloxone Training, PA Department of Health & PA Department of Drugs and Alcohol
* Tobacco Treatment Specialist Certification, Duquesne University
* Every Smoke Every Time, PA Department of Health
* Improving the Learning Environment through Educators (ILEED), Geisinger