

TIMOTHY AUNGST

THE DIGITAL APOTHECARY

CONTACT INFORMATION

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 The Digital Apothecary



CLINICAL EXPERIENCE

HOME HEALTH CARE CLINICAL PHARMACIST

Century Home Healthcare | Worcester, MA
June 2018 - Present

- Areas of focus include psychiatric conditions, cardiology, endocrinology, and neurology.
- Work with interdisciplinary team to provide medication reviews and optimization strategies
- Provide staff drug related information and seminars

OUTPATIENT HEART FAILURE CLINICAL PHARMACIST

UMass Memorial Medical Center | Worcester, MA
July 2016 - May 2018

- Reviewed cardiology patients pharmacotherapy management and directed therapy alongside CHF cardiology team
- Provided drug-based consultations for outpatient cardiology floor
- Educated patients on medications and performed medication reconciliation

PROFESSIONAL ACADEMIC EXPERIENCE

ASSOCIATE PROFESSOR OF PHARMACY PRACTICE

MCPHS University | College of Pharmacy | Worcester, MA
January 2013 - Present

Prev. Assistant Professor | Promoted to Associate Rank in 2017

- I have experience teaching classrooms in sizes from 30 - 300 students and via remote classrooms.
- Developed and deliver an elective course on digital health to pharmacy students.
- Coordinate and teach classes and laboratory assessments on patient care seminar, including patient education techniques, vitals signs, medical documentation, and medical presentation.
- I maintain a APPE site at a home health care agency, 36-weeks of the year, with 18-students per academic cycle.
- Serve on university and college committees related to course development, digital health integration, faculty development, admissions, and NAPLEX readiness.
- *For a full description of courses taught, please see my CV.*

Adjunct Professor

- **School of Physical Therapy** - Pharmacology lectures in GI, Neurology, and Mental Health
- **School of Physician Assistant Studies** - Pharmacology lectures in GI & Anticoagulation therapy
- **School of Optometry** - Pharmacology of ophthalmic antibiotics

WHO AM I?

I am a clinical pharmacist by training who currently works as an academic. I have a vested interest in the role of digital health in the pharmacy space. My work has spanned multiple presentations nationally and internationally, books and book chapters, and peer-reviewed publications. I serve as an advisor and consultant for startups and pharma regarding the role of digital health in relationship to pharmacy topic as a content expert.

WHAT EXPERTISE I BRING

I started in the mHealth space back in 2011 when I served as a writer/editor for iMedicalApps, where I reviewed +500 mobile medical apps. Our team created multiple publications that has influenced how mobile apps are reviewed to the present. I then started reviewing medication adherence devices, wearables, and associated digital health services and products, with an emphasis on pharmacy related industries. From this, I have built up a considerable contact list of startups in the digital health space, and became a content expert through experience. Since then, I have worked with other groups on creating standards for mobile health apps and digital therapeutics, and participated in numerous stake holders meetings nationally for future developments.

WHAT I AM AVAILABLE FOR

SPEAKING & WRITING OPPURTUNITIES

- Continuing education, guest speaking and Keynote talks
- Guest blogging pieces for websites or media related to articles on disease treatment, medication use, or Digital health expertise viewpoints or related pieces.
- Podcasting or Video appearances related to areas of expertise.

ADVISORIAL OR CONSULTANT ROLES

- Pharmaceutical companies with a need for a pharmacy specialist with high knowledge in digital health and related expertise.
- Start-ups in the digital health space looking for pharmacy input in relationship to areas of expertise.
- *I am presently not looking for any role that includes opening a pharmacy, requires regulatory or legal knowledge, or serving for a start-up focused on medication adherence at this time.*



THE DIGITAL APOTHECARY

SPEAKING EXPERIENCE

I have given over 20 national and international presentations related to digital health, pharmacy practice topics, and disease and drug treatment. Audience sizes have ranged from dozens to over a thousand. I am comfortable presenting alone, with others, or on panels and fireside chats, webinars, and recordings. I would describe my presentation style as engaging and pursue the concept of an entertainer on the stage. Please see my CV for full details.

SELECTED PRESENTATIONS

- "Research in mHealth: Finding the Right Balance" Medicine 2.0, Blackfriars, London, England.
- "What makes a great pharmacist." Kyoto Pharmaceutical University, Kyoto, Japan.
- "What should the infrastructure look like to get digital therapeutics to patients?" DTx East. Boston, MA.
- "Mobile Apps & the Future of Digital Health: The Future Is Now." AACP Annual Meeting. Chicago, IL.
- "How the Patient Home Will Be a Digital Biomarker Marketplace" Digital Biomarkers in Pharma R&D: Technical Challenges and Strategies for Advancing Personalized Medicine Workshop. Bio-IT World Conference & Expo.
- "From Pillboxes to Smart Pills: How Digital Health Is Changing Medication Adherence." ASHP 53rd Midyear Clinical Meeting, Anaheim, CA.
- "Integration of Mobile Technology into Pharmacy Practice: What does mHealth mean for Pharmacy?" ASHP 49th Midyear Clinical Meeting, Anaheim, CA.
- "Geriatric Care in the Digital Age: The Role of Smart Devices and Tools for Patient Care." American Society of Consultant Pharmacists. BCPG Educational Series.

WRITING EXPERIENCE

I have published over 20 peer-reviewed publications, primarily on technology and pharmacy practice. My contributions have also included solicited publications for trade magazines and journals on digital health, and I serve as a contributor for several pharmacy media outlets. In total, I have over a 100+ online media articles published, ranging from clinical expertise insights to digital health opinion pieces. I also maintain my own blog, at TheDigitalApothecary.com which has on average 40K visitors a year. Lastly, I also contribute to podcasts, and co-host the FutureDose.tech podcast on technology and pharmacy, and have a YouTube series on digital health.

SELECTED ARTICLES

- *Telemedicine in Heart Failure-Ineffective or Just Ill Used?*. JAMA Intern Med. 2016;176(7):1035.
- *Medical application use and the need for further research and assessment for clinical practice: creation and integration of standards for best practice to alleviate poor application design*. JAMA Dermatol. 2013;149(6):661-2.
- *How to identify, assess, and utilize mobile medical applications in clinical practice*. Int J Clin Pract. 2014;68(2):155-62.
- *Medical applications for pharmacists using mobile devices*. Ann Pharmacother. 2013;47(7-8):1088-95.
- *Potential uses of wearable technology in medicine: lessons learnt from Google Glass*. Int J Clin Pract. 2015;69(10):1179-83
- *Smart Connected Insulin Pens, Caps, and Attachments – A Review of the Future of Diabetes Technology*. Diabetes Spectrum. 2019 May; ds180069.
- *Using a hackathon for interprofessional health education opportunities*. J Med Syst. 2015;39(5):247.
- *Digital health evaluation workshop for interprofessional healthcare students*. Digital Health, 3:1-6.
- *Identification and review of mobile applications for travel medicine practitioners and patients*. J Travel Med. 2016;23(4).

EDUCATION & TRAINING

DOCTOR OF PHARMACY

Wilkes University | Wilkes-Barre, PA
2004-2011

PGY-1 PHARMACY PRACTICE RESIDENCY

St. Luke's University Hospital | Bethlehem, PA
2011-2012

CLINICAL GERIATRIC FELLOWSHIP

MCPHS University | Worcester, MA
2012-2013

CONSULTING & ADVISORY EXPERIENCE

- Otsuka Pharmaceuticals
- Eli Lilly
- Teva Pharmaceuticals
- The Digital Therapeutics Alliance
- HealthXL
- Healthcombix
- ProfessionsQuest - AACP

FREELANCE & WRITING EXPERIENCE

- Iodine, Inc (now part of GoodRx)
- GoodRx
- Pharmacy Times
- Doximity
- IMedicalApps
- RankedHealth
- MedTech Boston

AWARDS & HONORS

- 2015-2016 ISTM Journal of Travel Medicine Award for Second Best Brief Communication Article
- Advisor of the Year (2015)
- Preceptor of the Year (2017)
- Game Changer Award - Google Glass Challenge (2014)