

Michael James Harrison

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EDUCATION

- September 2013 – Present **University of Michigan College of Pharmacy** | Ann Arbor, Michigan
Doctor of Pharmacy Candidate – 3.8 GPA
- August 2009 – May 2013 **Case Western Reserve University** | Cleveland, Ohio
Bachelor of Science, Biochemistry; Minor in Psychology
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PROFESSIONAL EXPERIENCE

- May 2015 – May 2016 **Blue Cross Blue Shield of Michigan** | Detroit, Michigan
Medicare Part D Pharmacy Intern
- Developed databases for managing outcomes data, targeting clinical programs, and tracking formulary changes for Stars quality measure initiatives
 - Recommended clinical interventions as a part of longitudinal opioid utilization review program utilizing pharmacy and medical claims as well as external data
 - Directed, wrote, and animated an informational five-minute video about changes in healthcare as they relate to the millennial market
- June 2014 – May 2016 **University of Michigan College of Pharmacy, Department of Medicinal Chemistry** | Ann Arbor, Michigan
Lab Technician
- Prepared solvents and other reagents required to synthesize and purify novel peptide-based opioid analgesics
- October 2010 – May 2013 **University Hospitals** | Cleveland, Ohio
Magnetic Resonance Imaging Technician
- Authored MATLAB tools to increase the efficiency of bulk imaging analysis tasks, reducing required user interaction time by a factor of 10
 - Trained new employees in the safe operation of MRI and other advanced imaging equipment, anesthesia and monitoring tools, and analysis software
 - Collaborated with researchers on imaging projects spanning multiple therapeutic areas including polycystic kidney disease and cystic fibrosis
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RESEARCH EXPERIENCE & PUBLICATIONS

- May 2015 – Present **Trends in Clinical Trial Complexity; Research Pharmacy Workload**
Principle Investigator: Kim Redic, PharmD, BCPS
- Developed protocol to assess the impact of sponsor trial design decisions on research pharmacy workload and resource requirements
 - Surveyed over 100 University HealthSystem Consortium research pharmacies to evaluate global complexity factors for inclusion in a protocol scoring tool
- October 2016 Harrison, MJ and Patel, TS. **Treatment of Rhinosinusitis Mucormycosis with Combination Amphotericin B-Micafungin and Step-Down to Isavuconazole.** *Society of Infectious Disease Pharmacists Newsletter.* 2016; (3):17-19.
- September – December 2015 **Palonosetron in High-Risk Chemotherapy, Medication Use Evaluation**
Principle Investigator: Shannon Hough, PharmD, BCOP
- Established the compliance rate for the use of standard-of-care anti-emetic therapy through an analysis of over 300 patients representing over 5000 claims
 - Determined prescriber, disease, and population outliers that guided order-set corrections for use of these medications

- December 2011 – May 2013 **Assessment of Lung Function in Early Stage Murine Cystic Fibrosis with Oxygen-Enhanced Magnetic Resonance Imaging**
Principle Investigator: Chris Flask, PhD
- Utilized oxygen-enhanced MRI to assess lung function in a placebo-controlled study of mice affected by cystic fibrosis
 - Operated vaporizers for volatile anesthetics and monitoring equipment

ADVANCED PHARMACY PRACTICE EXPERIENCE

- March 2017 **University of Michigan Health System** | Ann Arbor, Michigan
Critical Care Intensive Care Unit | Preceptor: Cesar Alaniz, PharmD
- February 2017 **University of Michigan Health System** | Ann Arbor, Michigan
Institutional Health System | Andrew Lucarotti, PharmD
- January 2017 **Lexicomp, Inc.** | Hudson, Ohio
Metabolism, Interactions, and Genomics | Preceptor: Stephen Stout, PharmD
- October 2016 **Eli Lilly and Company, Inc** | Indianapolis, Indiana
Early Phase Clinical Development, Oncology | Preceptor: Oday Hamid, PharmD
- Drafted a manuscript reporting the results of a Phase I clinical trial exploring alternative dosing-regimens of a novel chemotherapeutic agent
 - Designed dose-escalation Phase I clinical trial and authored a study synopsis based on preclinical efficacy and safety data for a pipeline compound
 - Conducted preliminary analysis of safety and adverse event reporting data for a Phase III clinical trial
 - Participated in near-daily roundtable and one-on-one discussions with practicing pharmacists in diverse functional areas
- August 2016 **Trinity Health – Saint Joseph Mercy Cancer Center** | Ann Arbor, Michigan
Oncology Ambulatory Care | Preceptor: Carol Yarrington, PharmD, BCOP
- Developed Excel macros that automate chemotherapy usage reporting across five practice sites, saving an estimated 45 hours of analyst time per year
- July 2016 **University of Michigan Health System** | Ann Arbor, Michigan
Infectious Disease Consultation | Preceptor: Jarod Nagel, PharmD, BCPS
- Built dashboards for tracking select antibiotic use to target and evaluate the effectiveness of *Clostridium difficile* infection control efforts
- June 2016 **University of Michigan Health System** | Ann Arbor, Michigan
Internal Medicine & Surgery | Preceptor: Carolyn Richards, PharmD
- May 2016 **CVS Health** | Ann Arbor, Michigan
Community Pharmacy | Preceptor: Emily Williams, PharmD

INTRODUCTORY PHARMACY PRACTICE EXPERIENCE

- January 2016 – May 2016 **Trinity Health – Saint Joseph Mercy Health System** | Ann Arbor, Michigan
Institutional Health System | Preceptor: Michelle Brinker-Bodley, PharmD
- September – December 2015 **University of Michigan Health System** | Ann Arbor, Michigan
Direct Care, Bone Marrow Transplant | Preceptor: David Frame, PharmD
- September – December 2014 **Dexter Pharmacy** | Dexter, Michigan
Community Pharmacy | Preceptor: Theodore Scott, PharmD
- September 2013 – May 2015 **Longitudinal Early Practice Experience** | Ann Arbor, Michigan
Community Care | Preceptor: Anica Madeo, MPH, MSW
- January – May 2014 **Oaks Adult Day Program, Catholic Social Services** | Ann Arbor, MI
Service Learning | Preceptor: Anica Madeo, MPH, MSW

LEADERSHIP EXPERIENCE

- November 2013 – Present **Phi Delta Chi Alpha Chapter** | Ann Arbor, Michigan
Worthy Vice Counselor, March 2015 – March 2016
- Oversaw and coordinated all chapter operations, including nine committees, 135 members, a diverse online presence, and over \$30,000 in annual cash flow
 - Organized 3-day Founders' Day celebration including a memorial service, meals, lodging, and other events for 70+ local and visiting Brothers and alumni
- Auditor*, March 2014 – March 2015
- Designed and built chapter web presence (see: pdcalpha.org) based on the Drupal 7 content management system using HTML, jQuery, CSS, PHP, MySQL, and other technologies
 - Authored software to automatically collect and index reimbursement submissions allowing officers to validate requests and issue payments
- Pledge Class Leader*, September – November 2013
- Coordinated a class of 33 individuals, event planning, and a fundraising effort that yielded over \$4400 over a two-month period
- September 2015 – May 2016 **Health Informatics Society** | Ann Arbor, Michigan
Executive Team Member: College of Pharmacy Representative
- Planned interdisciplinary speaker events, project workshops, and other events with an average attendance of 30 students across 5 professional schools
 - Recruited healthcare analytics companies for informational networking events
- April 2015 – January 2016 **HIPAA-Compliant E-mail Transition Team** | Ann Arbor, Michigan
Student Lead
- Developed a timeline and communication strategy for the movement of 300+ students to the exclusive use of a HIPAA-compliant e-mail system
 - Authored resources, designed infographics, managed feedback, and leveraged Pharmacy Student Government Council as liaisons to reduce the work burden on institutional information technology services
- January 2015 – March 2016 **Phi Lambda Sigma, Pharmacy Leadership Society** | Ann Arbor, Michigan
Director of Online Enterprises
- Launched a year-round CV review program that allows students to solicit specific feedback from a group of 30+ faculty sponsors and student volunteers
 - Implemented online systems to streamline chapter operations, including fundraising, reimbursement, and membership application and review
- November 2014 – May 2015 **Website Development Team** | Ann Arbor, Michigan
Pharmacy Student Government Council; Phi Delta Chi Student Representative
- Provided feedback to guide the ongoing development of the University of Michigan College of Pharmacy website and social media presence
 - Assisted in the integration of student organization webpages for Phi Delta Chi and Pharmacy Student Government Council
- August 2014 – May 2016 **Student Services Committee** | Ann Arbor, Michigan
P2 Student Representative; P3 Student Representative
- Evaluated Accreditation Council for Pharmacy Education standards for strengths, weaknesses, opportunities, and threats related to student services
 - Analyzed College of Pharmacy environment feedback data and assisted in the design and implementation of improvements for PharmD and PhD students

September 2013 – May 2016 **Pharmacy Student Government Council** | Ann Arbor, Michigan
Elected P1 Representative; Information Technology Liaison

- Provided continuous technical training and support for the on-going use and development of the PSGC web presence
- Designed and implemented new branding, logo, and marketing materials

PRESENTATIONS

September 2015 & 2016 **Forging a Path: Career Development in Pharmacy School**
Phi Lambda Sigma Curriculum Vitae and Cover Letter Workshop at the University of Michigan College of Pharmacy

August 2016 **Mixing Up Mucor: Emerging Therapies in Invasive Mucormycosis**
Seminar presentation at the University of Michigan College of Pharmacy

March 2016 **Quality and Utilization Management – STARS and Beyond**
Lecture for Pharmacy 516 at the University of Michigan College of Pharmacy

November 2015 **Pharmacy and Opportunities in Health Informatics**
Health Informatics Society and Equation Health Networking Event at the University of Michigan School of Information

November 2015 **Vironostat in the Prevention of Graft Versus Host Disease**
Presentation at the University of Michigan College of Pharmacy

July 2015 **Ancillary Business in the Millennial Market**
Ancillary Products Division, Blue Cross Blue Shield of Michigan.
With: Hernandez N, Townsend C, Thakur, U.

June 2015 **Hepatitis C: A Three Year Retrospective Drug Utilization Review**
Senior Business Division, Blue Cross Blue Shield of Michigan. With: Kiston RK.

June 2015 **Entrepreneurship and Innovation in Pharmacy Education**
University of Michigan College of Pharmacy Board of Governors Meeting. With: Zeplin LS, Mo H.

April 2015 **Zohydro in Chronic Lower Back Pain: Finding a Niche**
Poster presentation at the University of Michigan College of Pharmacy.
With: Blanchard DL, Michael CA, Lee S.

April 2013 **Assessment of Lung Function in Early Stage Murine Cystic Fibrosis with Oxygen-Enhanced Magnetic Resonance Imaging**
Poster presentation at the Biochemistry Department Annual Retreat, Case Western Reserve University Department of Biochemistry.

CURRICULUM DEVELOPMENT

January 2016 – Present **The Economics and Practice of Healthcare Quality**
University of Michigan College of Pharmacy | Faculty Advisers: Hae Mi Choe, PharmD; Karen Farris, PhD, MPA; Kimberly Moon, PharmD

- Developed course objectives, syllabi, assignments, and projects under the advisory of academic, ambulatory care, and managed care stakeholders for the creation of a 2 credit pharmacy professional elective course

January – May 2013 **COGS 399/RLGN 392: Religion and Ethics in Science Fiction**
Case Western Reserve University | Faculty Adviser: William E. Deal, PhD

- Constructed a college level literary analysis and writing course built around the portrayal of religion and philosophy in modern and golden-era science-fiction

HONORS & AWARDS

October 2016	Cooke Memorial Scholarship Federal Employee Education & Assistance Fund
March 2016	Fred and Dee Lyons Leadership Scholar University of Michigan
March 2016	Michigan Difference Student Leadership Award University of Michigan
November 2015	Winning Team (1st of 15), Fifth Annual Phi Delta Chi Bug/Drug Trivia
November 2015	Professional Commendation Note University of Michigan
July 2015	The Rho Chi Society, Pharmacy Academic Honor Society
July 2009, 2015, & 2016	Regional Merit Award Federal Employee Education & Assistance Fund
June 2014 – 2016	High Distinction in Academic Performance University of Michigan
April 2015	Alpha Scholar Award Alpha Chapter of Phi Delta Chi, University of Michigan
April 2015	Charles R., Jr. and Jean B. Walgreen Scholarship University of Michigan
March 2015	Elise Katz-Rouhier Leadership Scholar University of Michigan
February 2015	Officer of the Month Alpha Chapter of Phi Delta Chi, University of Michigan
January 2015	Phi Lambda Sigma, Pharmacy Leadership Society
September 2014	The Rho Chi Society, Certificate of Academic Recognition
2011 – 2013	Dean's High Honors Case Western Reserve University

CERTIFICATIONS

November 2016	Leadership Training for Managers Dale Carnegie Training
July 2016	Google AdWords Google, Inc.
January 2016	Google Analytics Google, Inc.
February 2015	Substitute Teaching Permit Professional Educational Services Group
September 2014	Pharmacy-Based Immunization Delivery American Pharmacists Association
September 2013	BLS/CPR for Healthcare Providers American Heart Association
August 2013	Pharmacist Educational Limited License Michigan Board of Pharmacy

PROFESSIONAL MEMBERSHIP

July 2015 – Present	Academy of Managed Care Pharmacy <i>Student Member</i>
June 2015 – May 2016	Pharmacy Quality Alliance <i>Pharmacy Quality Ambassador, Academic Affairs, Membership & Engagement</i>
June 2015 – Present	Michigan Pharmacists Association <i>Student Member</i>
December 2013 – May 2016	Pharmacy Student Ambassadors <i>Student Email Ambassador and Interviewer</i>

COMMUNITY SERVICE

October 2015	Cedar Point Fundraiser for St. Jude Sandusky, OH
July 2015	Blue Care Network/Walgreens Health Fair Dearborn, MI
January 2015 – Present	Project PB&J Ann Arbor, MI
October 2013, 2014, & 2015	Relay for Life RxFactor, Grilled Cheese Fundraiser Ann Arbor, MI
October 2013, 2014, & 2015	Fall Chore Day Ann Arbor, MI