

Taylor Martin, DO MPH

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Professional Experience¹

CLINICAL INFORMATICS FELLOW AND PREVENTIVE MEDICINE PHYSICIAN

July 2022-present

UCLA HEALTH SYSTEM

Clinical Informatics Fellow PGY4-PGY5. Rotated through various departments in Information Services and Solutions (ISS) acting as a physician informaticist. ¹

► INFORMATICS:

- Projects
 - Designed and created NoteWriter TipSheet and LOS & Charge Capture Video Training
 - Analyst for Clinical Content team
 - Immediate Care Clinic telemedicine workflow optimization and process measure monitoring via tableau dashboard
 - Quality collection and improvement project for the UCLA Lifestyle Medicine clinic.
 - Built and implemented a heart failure remote patient monitoring questionnaire deployed through the patient portal.
 - Medicare Annual Wellness Visit - Smartset optimization focused on prevention measures and charge capture.
 - SME and contributor to development, implementation and evaluation of ED Transfer NLP Project
 - Pediatric Urgent Care charge capture and billing optimization tool. Collected SME contributions and acquired approval through Health IT Governance committees. Implemented July 2023, currently monitoring and analyzing use data.
- Involvement
 - Contributor to the Health AI Counsel which reviews and approves all machine learning/artificial intelligence tools implemented in UCLA's electronic health record
 - Member of the Physician Informatics governance group, involved in key informatics decision making
 - Mentor and lecturer for Resident Informaticist program
 - Lecturer for David Geffen School of Medicine Digital Health Track

► CLINICAL:

- Lifestyle medicine clinic
- Med/Peds Primary Care Clinic
 - Continuity clinic
 - Urgent care
- Occupational Health clinic

CHIEF INFORMATICS OFFICER / REGIONAL MEDICAL DIRECTOR/ PREVENTIVE MEDICINE PHYSICIAN

Jan 2023-present

GILLETT HEALTH

Telemedicine concierge practice focused on individualized medicine and preventive care.

► RESPONSIBILITIES:

- Evaluate potential HIT Vendors
- Manage build and analyst teams
- Product development and product management
- Organize, manage and monitor quality of West Coast Clinical Operations team (physicians and nurse practitioners)

► PROJECTS:

¹ Expanded experience available upon request

- Designed, built, implemented and evaluated Diagnostic Display Portal, pulling in lab data from LabCorp and other diagnostics (imaging, genetics, GI mapping) and displays in Gillett Health customized categories. Available for patients and lab-only patients. HIPAA compliant.
- Biological Age Index algorithm

HEAD OF OPERATIONS AND BUSINESS DEVELOPMENT

Jan 2021-March 2024

DURATION HEALTH

Telemedicine startup that utilizes pre-prescribing to provide customized Med Kits for travelers, adventurers and preppers. In my role as the first employee, I provide care coordination, data analytics, software development, business development and customer service.

► OPERATIONS:

- Designed and helped develop HTML based homegrown medical record - Espresso
- Expanded clinical staff: 9 physicians

► BUSINESS DEVELOPMENT:

- Grown social media network by 400%+
- Contributed to 50 state expansion
- Partnership with The North Face

PREVENTIVE MEDICINE AND PUBLIC HEALTH RESIDENCY PGY2-3

July 2020-June 2022

JOHNS HOPKINS SCHOOL OF PUBLIC HEALTH

Practiced clinically at 2 different health systems (Johns Hopkins & MedStar Health) and with 2 different EHRs (EPIC & Cerner).. Rotated through multiple organizations as a consultant, educator and clinician, always on the lookout for barriers and technological solutions. Responsibilities and deliverables include:

► PROJECTS:

- Helped design a health department-run registry for pediatric asthma and lead level for Maryland Department of Health.
- Contributed to GIS dashboard improvements, provided clinical insight and use cases for future development of the FCC C2H program as a member of Greystone HIT, LLC
- Project Manager and Lead author for Johns Hopkins Community Physicians 2022 Telemedicine Symposium position paper, *Educating the Workforce for Teambased Telemedicine*
- Spearheaded, designed and initiated implementation of initiatives to improve overall cost of care for 400,000 members across 4 lines of business for Johns Hopkins Health Care (payor).
- Updated High Penetrance Genetic Testing Policy for Breast and Ovarian Cancer. Conducted a literature review and collected industry standards & professional guidelines. Interacted with SME to finalize policy. Policy update approved by Medical Policy Advisory Committee (MPAC).
- Built and monitored Medicare Annual Wellness Visit clinical decision support tool at Medstar Health System.
- Advised on CDS development, implementation and post-intervention monitoring for Epic based CDS in partnership with NovoNordisk.
- Data analysis and clinical consultant for the [Johns Hopkins Covid Dashboard](#)
- Formulated workflow solution and facilitated communication between billing and clinical departments in the context of expanding the Remote Patient Monitoring billing codes being used by clinicians.
- Teaching assistant for Johns Hopkins Bloomberg School of Public Health

► CLINICAL:

- Family medicine clinic
- Urgent care
- Obesity Management
- Occupation health
- Public Health
- Infectious disease/travel clinic

PHYSICIAN RESEARCH ASSISTANT

August 2021-June 2022

JOHNS HOPKINS CENTER FOR POPULATION HEALTH IT (CPHIT)

Development, piloting and dissemination of an integrated clinical and social multi-level decision support platform to address social determinants of health (SDoH). The primary outcome will be an SDoH Index that is incorporated into the Johns Hopkins Adjusted Clinical Group ® (ACG). The ACG System is a proprietary health analytics software that provides a multi-morbidity framework that is clinically logical, informative of future health care resources and easy to apply for both financial and clinical managers.

► **CDS & RISK SCORE DEVELOPMENT & VALIDATION:**

- Identify evidence-based SDoH markers
- Develop CDS tool and social risk score
- Design closed-loop referral between clinics & community-based organizations (CBOs)

TRANSITIONAL YEAR INTERNSHIP PGY1

July 2019-June 2020

BASSETT HEALTH NETWORK

Rural health system in upstate New York. Unique set of patient population and access challenges. Rotated clinically through medicine, surgery, ICU, ambulatory medicine, emergency medicine, cardiology, PM&R and Rad/onc. Participated in HIT-related projects.

► **EPIC OPTIMIZATION FOCUS GROUP:**

- Resident representative
- Contributed to vendor discussions, change management planning & implementation, and workflow redesign.

► **CDS TOOL DEVELOPMENT:**

- Identified need for CDS tool, initiated communication with informatics team and consulted clinically with the EPIC builder about interventions. Contributed to multiple CDS tools that were moved to production.
 - o ICU Scoring Tools: APACHE II/III, SAPS and LODS
 - o ID Precautions: revised automatic C.Diff testing for acute diarrhea ICD10 R19.7
 - o COVID Related Outpatient workflow

Co FOUNDER AND CEO

Jan 2018-Jan 2020

WINDWAKE HEALTHCARE TECHNOLOGIES, LLC

Healthcare technology LLC built as the engine to design and implement clinical decision support for chronic disease management. The primary vision was to decrease costs and improve quality & experience, aligning with the Triple Aim. Products included:

► **WINDWAKE ORCHESTRA:**

- Platform that orchestrated the health of patients across the entire continuum of care, agnostic to existing HIT infrastructure. Allowed for clinicians to plug-and-play with decision trees to design and implement chronic disease-related CDS.
- Produced automated SOAP note with recommended billing codes (CPT 99214, 99394-7, G2012), which could be copied and pasted by the clinician to the patient chart.
- CDS built for diabetes, hypertension, COPD, CHF, asynchronous weight loss program, contraception counseling & prescribing, preventive screenings (GAD, PHQ9, AUDIT) and transitions of care triage.
- Pilot study at NearNorth FQHC in Chicago in 2018 and beta product role out at Ahwatukee Family Medical Center in Phoenix in 2019
- Provisional patent filed February 2018. Not renewed in February 2019 due to lack of technological relevance.
- American College of Preventive Medicine Design Hack Finalist and Grant Receiver March 2019

► **MEDICARE ANNUAL WELLNESS VISIT (AWV) HEALTH RISK ASSESSMENT (HRA):**

- Digitized the HRA questionnaire to be deployed to patients via the patient portal or tablet prior to the clinical encounter. It was built in compliance with CMS requirements (G0439) to decrease clinical workload and patient wait times while increasing the conversion rate of AWV eligible patients.

► **MACHINE LEARNING CHEST XR TOOL:**

- Built in conjunction with Arizona State University PhD Candidate. Utilized the NIH CXR Dataset as a 80%/20% training/validation split. Provided clinical insight, project management and data collection.
- CXR Machine Learning Tool 2nd round finalist at RSNA CXR Competition 2018.

LEAD MICROBIOLOGIST

Dec 2014-June 2015

HELIAE

Biotechnology startup focused on researching and developing microalgae and other cutting-edge biological platforms for commercial-scale production of useful products. Managed the preservation and growth of 4 genetically modified algae strains as proof of principle to produce food, medicine and fuel. Participated on the Reactor R&D Team, designing novel ways of large-scale growth of selective microalgae in a sterile environment.

UNDERGRADUATE RESEARCHER: MOLECULAR PROTEINS OF INFECTIOUS DISEASE

Jan 2018-Jan 2020

ARIZONA STATE UNIVERSITY SCHOOL OF LIFE SCIENCES

Contributor to a team working on developing a plant-derived, virus-like-particle (VLP) vaccine for LCMV as a proof of principle growth vector (*Nicotiana benthamiana*) for an HIV VLP vaccine. See Research section for presentations.

UNDERGRADUATE RESEARCHER CENTER FOR INFECTIOUS DISEASE AND VACCINOLOGY

Jan 2018-Jan 2020

ARIZONA STATE UNIVERSITY BIODESIGN INSTITUTE

Worked towards phenotyping genetic deletions in *Edwardsiella ictaluri*, a prominent fish pathogen that is especially disruptive to fish farms, with the end goal to develop antimicrobials. See Research section for publications and presentations.

Education and Credentials

M.P.H. – Johns Hopkins School of Public Health	June 2022
— Concentration in Statistics and Quantitative Methods	
— Population Health Informatics Certificate	
D.O. – AT Still University School of Osteopathic Medicine Arizona	June 2019
B.S. – Arizona State University	Dec 2014

Certificates:

Board Certified in Preventive Medicine	2023
California Medical State License	2023
Johns Hopkins Project Management Module	2021
Lean Introduction Course	2021
Johns Hopkins Armstrong Institute: Human Factors for Patient Safety	2021
APIH Navigating a Foodborne Outbreak: Preparation for Interprofessional Practice	2021
FEMA Emergency Management Institute: Introduction to Incident Command System	2020
A Complete Guide to Data Science with R Tutorial	2020
Udemy Computational Neuropsychology	2019
Coursera TensorFlow	2019
Andrew Ng Machine Learning Course	2018

Research / Publications / Presentations

Publications

1. **T. Martin**, I. Diaz, J. Kilbourne, O. Almarza, C. Segovia, R. Curtiss III and J. Santander*. 2016. Influence of lipopolysaccharide outer-core in the intrinsic resistance to antimicrobial peptides and virulence of *Edwardsiella ictaluri*. Microbial Pathogenesis. 93:204-12. doi:10.1016/micpath.2016.02.020
2. Santander, J.*, J. Kilbourne, J. Y. Park, **T. Martin**, A. Loh, M. I. Diaz, C. Segovia, R. Rojas, D. DeNardo and R. Curtiss III. 2014. Inflammatory Effects of *Edwardsiella ictaluri* Lipopolysaccharide in Catfish Gut. Infection and Immunity 82(8): 3394-3404.
3. Santander, J., **T. Martin**, A. Loh, C. Pohlez, G. M. Gatlin III and R. Curtiss III. 2013. Mechanism of Intrinsic Resistance to Antimicrobial Peptides of *Edwardsiella ictaluri* and its Influence on Fish Virulence and Gut Inflammation. Microbiology. 159:1471-1486. doi:10.1099/mic.0.066639-0

Presentations

1. **Martin, T.**, R. Curtiss III and Santander, J. **2013**. UDP-glucuronic Acid Transferase of *Edwardsiella ictaluri* and Virulence. American Association for the Advancement of Science, Boston, MA. *Poster presentation*
2. **Martin T.**, L. Meador, J. Blattman, and T. Mor. **2014**. Expression of LCMV virus-like particles in *Nicotiana Benthamiana*. School of Life Sciences Undergraduate Research Symposium, Tempe, Arizona, USA. *Poster presentation*.
3. **Martin, T.**, Mormann, B. Risk Stratification for Exploration Missions: Feeding the MEDPRAT Predictive Modeling Tool. NASA Aerospace Medicine Clerkship Poster Presentation, Johnson Space Center, Houston, TX. **2018** *Poster Presentation*.
4. **Martin T**, Wang JAS, Tarn DM, Bell DS. Counseling Practices for Patients at High Cardiovascular Risk Who Decline to Take a Statin. Preventive Medicine 2024, Washington DC, Apr 18-21, 2024. *Poster Presentation*.

Work presented by others

1. Bhise, S., Lee, O., Almazan, E., **Martin, T.**, Gudzone, K., Bennett, W., Clark, J., Schwartz, J. 2022. Behavioral and Clinical Decision Support Interventions for Obesity in Primary Care: A Scoping Review. Obesity Week 2022. San Diego, CA. *Poster Presentation*
2. Johnson, M., Esposito, T., Bourbeau, L., Desir, R., Gillette, E., Horozov, J., **Martin, T.**, Petti, M., Sher, E., Sultana, M. Long, T., Lewis, J. and Whelihan, K. 2017. Addressing Individual Barriers to Physical Activity. Community Health Institute & EXPO. Chicago, IL. *Poster Presentation*
3. Santander, J. *, J. Kilbourne, J. Y. Park, **T. Martin**, M. I. Diaz, D. DeNardo and R. Curtiss III. 2014. Inflammatory Effects of *Edwardsiella ictaluri* Lipopolysaccharide in Catfish Gut. The 7th International Symposium on Aquatic Animal Health, Portland, Oregon, USA. *Oral presentation*.
4. Santander, J. *, J. Kilbourne, J. Y. Park, A. Loh, M. I. Diaz, **T. Martin**, D. DeNardo and R. Curtiss III. 2013. Development and Application of a Catfish Intestinal Loop Model to Study Effect of *Edwardsiella ictaluri* Lipopolysaccharide Modifications. Chilean Society for Microbiology. Maitencillo, Chile. *Poster presentation*.
5. Santander, J., **T. Martin** and R. Curtiss III. 2013. Lipopolysaccharide Synthesis, Antimicrobial Peptide Resistance and Fish Virulence in *Edwardsiella ictaluri*. Annual Eastern Fish Health Workshop. Annual Eastern Fish Health Workshop. Gettysburg, PA, USA. *Oral presentation*
6. Santander, J., **Martin T.**, Loh A. and R. Curtiss III. 2013. Intrinsic Resistance to Antimicrobial Peptides of *Edwardsiella ictaluri* and its Influence on Fish Gut Inflammation and Virulence. Aquaculture America Annual Meeting. Tennessee, Nashville, TN, USA. *Oral presentation*.
7. Santander, J., **Martin T.**, Loh A. and R. Curtiss III. 2012. Mechanisms of Intrinsic Resistance to Antimicrobial Peptides of *Edwardsiella ictaluri* and its Influence on Fish Gut Inflammation and Virulence. Conference of Research Workers in Animal Diseases, Chicago, Illinois, USA. *Oral presentation*.
8. Loh, A., **Martin T.**, R. Curtiss III and J. Santander. 2012. Zebrafish Larvae as Model to Evaluate Lipopolysaccharide Toxicity. Conference of Research Workers in Animal Diseases, Chicago, Illinois, USA. *Poster presentation*.
9. Santander, J., **T. Martin** and R. Curtiss III. 2012. *Edwardsiella ictaluri* Sweeteners and Fish Pathogenesis. Western Fish Disease Workshop. Boise, Idaho, USA. *Oral presentation*

Literature Appraisal as a Peer Reviewer for

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|------------------------------|------|
| 1. European Journal of Aging | 2021 |
| 2. PLOS One | 2020 |
| 3. Obesity Review | 2020 |

Membership/Leadership/Awards

Membership

American Medical Informatics Association	2019-present
Society of Physician Entrepreneurs	2018-present
American College of Preventive Medicine	2018-present
Healthcare Information and Management Systems Society	2018-present

Leadership

Resident physician representative for Graduate Medical Education Committee	2020-2022
Resident physician member of Bassett EPIC Optimization Focus Group	2019-2020
Resident physician member of Bassett Social Determinants of Health Focus Group	2019-2020
Salvation Army Next Generation Club - Founder and President	2013-2015
GoodDare - Co-Founder and COO	2012
Students Supporting Brain Tumor Research - Volunteer Coordinator	2012

Awards

American College of Preventive Medicine Design Hack Grant	2019
American College of Preventive Medicine Future Leaders of Preventive Medicine Scholarship	2019
Coursera Machine Learning Course Scholarship	2018
Special Olympics Unified Sports Value Embodiment Award	2016
Governor Jan Brewer Golden Rule Award	2014
SOLUR Undergraduate Fellowship	2013-2014
AAAS Undergraduate Fellowship	2013
Barrett Honors College	2013

Proficiencies

Tech/data

Languages: C, HTML, R, Stata, python

IDEs: Xcode, Rstudio, Jupyter

Source Control: Git

Programs: Excel, Access, Qualtrics, RedCap, Tableau

Epic Builder Certifications:

- Physician Builder
- Physician Builder Advanced
- Physician Builder Analytics
- Physician Builder Healthy Planet
- Notecraft for Physician Builder
- Cogito
- Caboodle Data Model
- Clarify Data Model
- Clinical Data Model
- Clinical Data Model for Physician Builders
- Usability Badge

Clinical

Electronic Health Records: EPIC, Cerner, Allscripts, eClinicalWorks, Espresso (homegrown Duration Health EHR), Elation, Salesforce Health Cloud

Population Management: EPIC Slicer Dicer, EPIC Healthy Planet

Payor related tools: Interqual, Hayes, Ariel

Business

Marketing and analytics: Google Marketing Platform, Facebook Ads, Google Ads

Operations: Slab, Help Scout, Olark, Trello, Asana, Monday, Docusign, Eversign