

Adam Joseph VanDeusen

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ACADEMIC EMPLOYMENT

Clinical Assistant Professor, Operations and Decision Technologies 2021-present
Kelley School of Business, Indiana University, Bloomington, IN

EDUCATION

PhD, Industrial & Operations Engineering 2017-2021

University of Michigan, Ann Arbor, MI

Dissertation: "An Industrial Engineering-Based Approach to Designing and Evaluating
Healthcare Systems to Improve Veteran Access to Care"

Advisor: Amy Cohn, PhD

MPH, Chronic Disease Epidemiology 2011-2013

Yale School of Public Health, New Haven, CT

Master's Thesis: "Cost-Effectiveness of Antiretroviral Therapy Regimens for HIV-Positive
Pregnant Women in Ghana: A Case for Option B-Plus"

Thesis Advisors: Elisa Long, PhD, Elijah Paintsil, MD, and A. David Paltiel, PhD

BSE, Industrial & Operations Engineering 2006-2010

University of Michigan, Ann Arbor, MI

Graduated *cum laude*, minor in Music

PROFESSIONAL EXPERIENCE

Mayo Clinic, Rochester, MN 2015-2017

Health Systems Engineer, Management Engineering & Internal Consulting

Instructor, Health Care Systems Engineering, Mayo Clinic College of Medicine

The Health Management Academy, Alexandria, VA 2013-2015

Senior Director, Clinical Forums & Physician Leadership Program

TEACHING EXPERIENCE

Introduction to Operations Management (BUS-P300) SP22, FA22

Quantitative Analysis (BUS-C520) SU22, WI21

Technology and Business Analysis (BUS-K303) FA21

Kelley School of Business, Indiana University

Operations Research and Control Systems (HMP 654), Graduate Student Instructor FA20

School of Public Health, University of Michigan

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| Data Management in Health Care (HMP 553), <i>Graduate Student Instructor</i> School of Public Health, University of Michigan | WI20 |
| Economic Decision Making (IOE 201), <i>Course Instructor</i> College of Engineering, University of Michigan | FA19 |
| Orientation to Healthcare , <i>Course Developer & Instructor</i> Department of Management Engineering & Internal Consulting, Mayo Clinic | 2015-2017 |
| Introduction to Statistical Thinking I & II (BIS 505a & 505b), <i>Teaching Fellow</i> Yale School of Public Health | SP13, FA12 |
| Stochastic Modeling in Decision Making (OPRS 237), <i>Teaching Fellow</i> Yale College/Yale Graduate School of Arts & Sciences | FA11 |

PUBLICATIONS

VanDeusen, A., Maa, A., Cohn, A. Designing Hierarchical Networks to Improve Patient Access to Care: A Case Study in Veteran Eye Care. J Def Model Simul. 2021. doi:10.1177/15485129211021167

VanDeusen, A.J., Pasupathy, K.S., Huschka, T.R., Heaton, H.A., Hellmich, T.R., Sir, M.Y. Extended Patient Alone Time in Emergency Department Leads to Increased Risk of 30-Day Hospitalization. J Patient Saf. 2021; 17(8):e1458-e1464. doi: 10.1097/PTS.0000000000000545

VanDeusen, A., Paintsil, E., Agyarko-Poku, T., Long, E.F. Cost effectiveness of option B plus for prevention of mother-to-child transmission of HIV in resource-limited countries: evidence from Kumasi, Ghana. BMC Infect Dis. 2015; 15:130. doi: 10.1186/s12879-015-0859-2

PEER-REVIEWED CONFERENCE PROCEEDINGS

VanDeusen, A., Liao, C., Venkat, A., Cohn, A., Kurlander, J., Saini, S. Evaluating Patient Triage Strategies for Non-Emergency Outpatient Procedures Under Reduced Capacity Due to the COVID-19 Pandemic. Proceedings of the 2020 Winter Simulation Conference

VanDeusen, A., Zacharek, N., Springer, E., Venkat, A., Cohn, A., Adams, M., Kurlander, J., Saini, S. Discrete-Event Simulation with Consideration for Patient Preference when Scheduling Specialty Telehealth Appointments. Proceedings of the 2020 Winter Simulation Conference

PRESENTATIONS

VanDeusen, A., Saini, S., Gawron, A., Dominitz, J., Cohn, A., Hofer, T., Kerr, E., Kurlander, J. "Working Smarter Not Harder: Using Simulation to Evaluate Evidence-Based Strategies to Offload Endoscopy Backlogs Related to COVID-19." Oral Presentation, Digestive Disease Week, Virtual, 2021

VanDeusen, A., and Cohn, A. "Using Simulation to Inform Policy Decisions to Improve Access to Healthcare." Oral Presentation, INFORMS Annual Meeting, Virtual, 2020

VanDeusen, A. "Developing and Analyzing Hierarchical Healthcare Networks to Improve Access." Oral Presentation, Data for Public Good Symposium, Ann Arbor, MI, 2020

VanDeusen, A., Saini, S., Adams, M., Kurlander, J., Cohn, A. "Using Simulation to Evaluate Scheduling

Policies for Specialty Care to Consider Patient Preferences.” Oral Presentation, INFORMS Annual Meeting, Seattle, WA, 2019

VanDeusen, A., Maa, A., Cohn, A. “Evaluating Screening and Care of Diabetic Retinopathy in Veterans Using Mixed-Integer Programming and Simulation.” Oral Presentation, INFORMS Annual Meeting, Seattle, WA, 2019

VanDeusen, A., Hirth, L., Cohn, A., Ramaswamy, V., Nalliah, R.P., Murdoch-Kinch, C.A. “Evaluating Dental School Faculty Staffing and Clinical Supervision Using Simulation.” American Dental Education Association Annual Session and Exhibition, Chicago, IL, 2019

VanDeusen, A., Maa, A., Cohn, A. “Improving Veteran Access to Eye Care Using Facility Location Models.” Oral Presentation, Health Systems Process Improvement Conference, San Antonio, TX, 2019

VanDeusen, A., Maa, A., Cohn, A. “Evaluating Veteran Access to Eye Care Using Facility Location Models.” Oral Presentation, INFORMS Annual Meeting, Phoenix, AZ, 2018

VanDeusen, A., Parikh, S., Riba, M., Harrington, A., Garcia-Tosi, R., Greden, J. “Collaborating with Employers for Evidence-Based Workplace Mental Health Programs.” Poster Presentation, National Network of Depression Centers, Baltimore, MD, 2018

VanDeusen, A., Maa, A., Cohn, A. “Applying Systems Engineering Methods to Address Healthcare Access.” Oral Presentation, Health Systems Process Improvement Conference, Atlanta, GA, 2018

VanDeusen, A., Paintsil, E., Agyarko-Poku, T., Long, E.F. "A Case for Adopting Option B Plus for Prevention of Mother-to-Child Transmission of HIV in Resource-Limited Countries: Evidence from Kumasi, Ghana." Oral Presentation, Pediatric Academic Societies Annual Meeting, Washington, DC, 2013

VanDeusen, A., Paintsil, E., Agyarko-Poku, T., Long, E.F. “Cost-effectiveness of Expanded HIV Treatment among Pregnant Women in Ghana.” Oral Presentation, INFORMS Annual Meeting, Phoenix, AZ, 2012

INVITED COMMUNITY PRESENTATIONS

“Simulation in Healthcare: Practical Design for Clinical Collaboration.” University of Michigan IOE 574 (*Simulation Design and Analysis*). Ann Arbor, MI 2019

“Systems Engineering and Ophthalmologic Telemedicine: Preventing Blindness.” University of Michigan IOE 813 (*Seminar in Healthcare Systems Engineering*). Ann Arbor, MI, 2018

“Analyzing Access to Healthcare with Operations Research Tools.” Research Education and Activities for Classroom Teachers (REACT), Ann Arbor, MI, 2018

“Applied Decision Analysis: Cost-Effectiveness of Antiretroviral Therapy Regimens for HIV-Positive Pregnant Women in Ghana.” University of Michigan IOE 460 (*Decision Analysis*), Ann Arbor, MI, 2017

HONORS AND AWARDS

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| Joel and Lorraine Brown Graduate Student Instructor Award, University of Michigan | 2019 |
| Seth Bonder Fellowship, University of Michigan | 2018 |
| Health Services Research Summer Fellowship, Institute for Healthcare Policy and Innovation | 2018 |
| Student Research Award, American Pediatric Association | 2013 |
| Volunteer of the Year, Unite For Sight | 2013 |
| Wilbur G. Downs International Health Research Fellowship, Yale University | 2012 |
| Second Place Poster, University of Michigan Student Global Health Day | 2010 |
| Carl J. Grapentine Scholarship, Michigan Marching Band | 2009 |
| University of Michigan Regents Merit Scholarship | 2006 |

FUNDING & GRANTS

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| Rackham Conference Travel Grant (received annually) | 2017-2020 |
| Seth Bonder Fellowship | 2018 |
| Rackham Funding for University of Michigan Summer Session in Epidemiology | 2018 |
| IHPI Health Services Research Fellowship | 2018 |
| Wilbur G. Downs International Health Research Fellowship | 2012 |

PROFESSIONAL MEMBERSHIPS

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| Institute for Operations Research & Management Science (INFORMS) | 2017-present |
| American Statistical Association (ASA), Twin Cities Chapter | 2015-2017 |

COMMUNITY & CAMPUS INVOLVEMENT

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| Hometown Alumni Involvement Link , University of Michigan College of Engineering | 2015-present |
| Scholarship of Teaching & Learning Faculty Learning Community | 2021-2022 |
| Indiana University Center for Innovative Teaching and Learning | |
| INFORMS at the University of Michigan | 2017-2021 |
| Past President | 2020 |
| President | 2019 |
| Vice President & Treasurer | 2018 |
| <i>Chapter received the INFORMS <u>Summa cum laude</u> Chapter Award in 2019, 2020, and 2021</i> | |
| University of Michigan Mentorship Program | |
| Graduate Student Mentor | 2019 |
| University of Michigan Faculty Senate Assembly | |
| Graduate Student Representative, Research Policies Committee | 2017-2019 |