

Adam Joseph VanDeusen

1205 Beal Ave., Ann Arbor, MI 48109

(810) 334-0028

ajvandeu@umich.edu

EDUCATION

PhD, Industrial & Operations Engineering 2017-present

University of Michigan, Ann Arbor, MI

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

TEACHING EXPERIENCE

Economic Decision Making (IOE 201), Course Instructor 2019

College of Engineering, University of Michigan

Orientation to Healthcare, Course Developer & Instructor 2016-2017

Department of Management Engineering & Internal Consulting, Mayo Clinic

Introduction to Statistical Thinking I & II (BIS 505a & 505b), Teaching Fellow 2012-2013

Yale School of Public Health

Stochastic Modeling in Decision Making (OPRS 237), Teaching Fellow 2011

Yale College/Yale Graduate School of Arts & Sciences

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

ADDITIONAL EDUCATIONAL EXPERIENCE

Complex Systems Modeling for Public Health Research (1-week course) July 2018

University of Michigan Summer Session in Epidemiology, Ann Arbor, MI

PUBLICATIONS

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.* 2018. EPub Ahead of Print. 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.

PRESENTATIONS

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

VanDeusen, A., Tamarelli, C., Misra A., Weist, M. “Assessing Technological Needs of Nicaraguan Maternal Health Clinics.” Poster Presentation, University of Michigan Student Global Health Day, Ann Arbor, MI, 2010

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

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

PROFESSIONAL MEMBERSHIPS

Institute for Operations Research & Management Science (INFORMS)	2017-present
Mensa	2009-present
American Statistical Association (ASA), Twin Cities Chapter	2015-2017

COMMUNITY & CAMPUS INVOLVEMENT

INFORMS at the University of Michigan

President	2019-present
Vice President & Treasurer	2018
<i>Chapter received the INFORMS Summa cum laude Chapter Award in 2019</i>	

University of Michigan Library Student Advisory Group	2018-present
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University of Michigan Faculty Senate Assembly

Graduate Student Representative, Research Policies Committee	2017-present
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Department of Management Engineering & Internal Consulting, Mayo Clinic

Mentor, New Hire Mentorship Program	2016-2017
Member, Applied Analytics Expert Group	2016-2017

Hometown Alumni Involvement Link, Univ. of Michigan College of Engineering	2015-present
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The Health Management Academy

Mentor, New Employee Peer Mentorship Program	2014-2015
Unite For Sight	
Session Coordinator, Global Health & Innovation Conference	2012-2013
Global Impact Corps Volunteer (Accra, Ghana)	2012
Chair, University of Michigan Chapter	2009-2010
Director of Elementary Education, University of Michigan Chapter	2008-2009
Yale Healthcare Conference	
Chair, Logistics	2012-2013
HAVEN Free Clinic	
Director, IT & Communications	2012
CERTIFICATIONS	
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Certified User (Research – Billing), Epic	4/2016-present
Global Health Research Certificate, Unite For Sight	2011