

# Adam Joseph VanDeusen

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## EDUCATION

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**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

## ADDITIONAL EDUCATIONAL EXPERIENCE

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

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

## PROFESSIONAL EXPERIENCE

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**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

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**Orientation to Healthcare**, *Course Developer & Instructor* 2015-2017

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

## PUBLICATIONS

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**VanDeusen, A.,** 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

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**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.,** 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

Buechler, T., Gross, T., Meyer, T., Milburn, A., McGarry, K., Harris, P., Sogla, C., Mielke, C., Swenson, L., Hegard, T., Freet, J., Clark, S., Moore, M., Ingram, T., **VanDeusen, A.,** Botz, C., Berninger, D. “Reducing Hospital Length of Stay through Development of Standardized and Translatable Discharge Processes.” Poster Presentation, Mayo Clinic Quality Conference, Rochester, MN, 2017

**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

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“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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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

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

## COMMUNITY & CAMPUS INVOLVEMENT

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### **INFORMS at the University of Michigan**

President	2019-present
Vice President & Treasurer	2018

<b>University of Michigan Library Student Advisory Group</b>	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

### **The Health Management Academy**

Mentor, New Employee Peer Mentorship Program	2014-2015
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### **Unite For Sight**

Session Coordinator, Global Health & Innovation Conference	2012-2013
Global Impact Corps Volunteer (Accra, Ghana)	2012

### **Yale Healthcare Conference**

Chair, Logistics	2012-2013
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### **HAVEN Free Clinic**

Director, IT & Communications	2012
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## CERTIFICATIONS

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Certified User (Research – Billing), Epic	4/2016-present
Global Health Research Certificate, Unite For Sight	2011