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| CONTACT INFORMATION                | <p>Johns Hopkins University<br/> School of Medicine, Department of Surgery<br/> 2000 E. Monument St.<br/> Baltimore, MD 21205 USA</p>  | <p><i>E-mail:</i> alvin@jhmi.edu<br/> <i>Github:</i> alvinthomas<br/> <i>Twitter:</i> @alvinthomas13<br/> <i>LinkedIn:</i> @alvinthomas13</p> |
| RESEARCH INTERESTS                 | <p><b>Utilizing Epidemiologic Methods in Transplantation:</b> My research explores clinically important epidemiologic questions at the intersections of solid organ transplantation, aging, infectious disease, and health policy. I am also involved in the development of a number of eHealth tools designed to connect, educate, and empower transplant donors and recipients.</p>  |   |
| CURRENT POSITION                   | <p><b>Research Data Analyst</b>, Johns Hopkins University<br/> School of Medicine, Department of Surgery<br/> Epidemiology Research Group in Transplantation</p>   | <p>August 2016 to present</p>   |
| EDUCATION                          | <p><b>Johns Hopkins University Bloomberg School of Public Health</b>, Baltimore, MD</p> <p>MSPH, International Health, May 2016</p> <ul style="list-style-type: none"> <li>• Focus: Global Disease Epidemiology and Control (GDEC)</li> <li>• Thesis: <i>The mLAKE Community Trial: Using mHealth to Empower CHWs to Encourage Combination HIV Prevention</i></li> <li>• Adviser: Larry W. Chang, MD, MPH</li> </ul> <p><b>Washington and Lee University</b>, Lexington, VA</p> <p>BS, Chemistry-Engineering, May 2014</p> <ul style="list-style-type: none"> <li>• <i>Honors</i> in Engineering</li> <li>• Minor in <i>Poverty and Human Capabilities</i></li> <li>• Thesis: <i>Plasticity in Dissociated Neuronal Networks under Chronic Stimulation</i></li> <li>• Adviser: Jonathan Erickson, PhD</li> </ul>   |   |
| PEER-REVIEWED JOURNAL PUBLICATIONS | <p>[1] <b>Thomas AG</b>, Henderson ML, Shaffer A, Massie AB, Luo X, Holscher CM, Purnell TS, Lentine K, Segev DL. The National Landscape of Living Kidney Donor Follow-up in the United States. <i>American Journal of Transplantation</i>. In Press. doi:10.1111/ajt.14356</p> <p>[2] Long A, Mbabali I, Hutton HE, <b>Thomas AG</b>, Bugos E, Mulamba J, Amico KR, Nalugoda F, Gray RH, Wawer MJ, Nakigozi G, Chang LW. Design and Implementation of a Community Health Worker HIV Treatment and Prevention Intervention in an HIV Hotspot Fishing Community in Rakai, Uganda. <i>Journal of the International Association of Providers of AIDS Care</i>. In Press. doi:10.1177/2325957417709089</p> <p>[3] Perin J, <b>Thomas AG</b>, Oldja L, Ahmed S, Parvin T, Bhuyian SI, Sarker B, Biswas SK, Faruque AS, Sack RB, and George CM. Geophagy is associated with growth faltering in children in rural Bangladesh. <i>The Journal of Pediatrics</i>. 2016 Nov 30; 178:34-9. doi:10.1016/j.jpeds.2016.06.077</p> |   |
| SUBMITTED JOURNAL PUBLICATIONS     | <p>[1] Ruck JM, Zhou S, <b>Thomas AG</b>, Cramm SL, Massie AB, Montgomery JR, Berger JC, Henderson ML, Segev DL. Electronic messaging and communication with living kidney donors. Submitted 2017.</p>   |   |

- [2] McAdams-DeMarco MA, Ying H, **Thomas AG**, Warsame F, Shaffer AA, Haugen CE, Garonzik Wang JM, Desai NM, Varadhan R, Walston J, Norman SP, Segev DL. Frailty, Inflammation, and Mortality Among Patients with End-Stage Renal Disease. Submitted 2017.
- [3] Durand CM, Bowring MG, Kucirka LM, **Thomas AG**, Massie AB, Bohm MK, Cameron A, Desai NM, Sulkowski M, Segev DL. The Impact of the Drug Overdose Epidemic on Deceased Donation and Transplantation in the United States. Submitted 2017.
- [4] Haugen CE, **Thomas AG**, Garonzik Wang J, Massie AB, Segev DL. Minimizing Risk Associated with Older Liver Donors by Matching to Preferred Recipients: A National Validation Study. Submitted 2017.
- [5] Van Pilsum Rasmussen SE, **Thomas AG**, Garonzik Wang J, Henderson ML, Stith SS, Segev DL, Nicholas LH. Reported Effects of the SRTR 5-tier Rating System on US Transplant Centers. Submitted 2017.
- [6] Shaffer AA, **Thomas AG**, Bowring MG, Van Pilsum Rasmussen SE, Kucirka L, Alqahtani S, Gurakar A, Sulkowski M, Cameron A, Segev DL, Durand CM. Changes in Practice and Perception of Hepatitis C and Liver Transplantation: Results of a National Survey. Submitted 2017.

CONFERENCE  
TALKS

- [1] Henderson ML, **Thomas AG**, Massie A, Luo X, Shaffer A, Holscher C, Segev DL. The Unfunded OPTN/UNOS Mandate of Living Kidney Donor Follow-up: Fewer than 50% of Centers in Compliance. In: *American Transplant Congress*, Chicago, IL, USA, April 29 - May 3, 2017.

CONFERENCE  
POSTERS

- [1] Thomas AG, Shaffer A, Massie A, Segev DL. Use of Pulsatile Perfusion Modifies the Effect of Delayed Graft Function on Graft Failure. In: *American Transplant Congress*, Chicago, IL, USA, April 29 - May 3, 2017.
- [2] Thomas AG, Massie A, Garonzik-Wang J, Lentine K, Henderson M, Segev DL. Landscape of Multiple Donations from a Living Donor in the US. In: *American Transplant Congress*, Chicago, IL, USA, April 29 - May 3, 2017.
- [3] Shrestha P, Rasmussen S, **Thomas AG**, Ferguson S, Massie A, Segev DL. Access to Living Donor Kidney Transplantation in Nepal. In: *American Transplant Congress*, Chicago, IL, USA, April 29 - May 3, 2017.
- [4] Halpern SE, **Thomas AG**, Holscher C, Massie A, Henderson ML, Anjum S, Locke J, Segev DL. Sexual Dysfunction Among Living Kidney Donors. In: *American Transplant Congress*, Chicago, IL, USA, April 29 - May 3, 2017.
- [5] Bannon J, Wickliffe C, **Thomas AG**, Klingbell A, Hiller J, Halpern S, Segev DL, Henderson ML. An Interdisciplinary Task Force to Engage Living Kidney Donors and Improve Follow-up Compliance. In: *UNOS Transplant Management Forum*, Orlando, FL, USA, April 25-27, 2017.
- [6] Thomas AG, Henderson ML, Massie AB, Shaffer A, Luo X, Holscher CM, Segev DL. Fewer than 50% of Transplant Centers Fully Comply with OPTN Living Donor Follow-up Policy. In: *American Society of Transplant Surgeons*, Miami, FL, USA, January 26-29, 2017.
- [7] Halpern SE, **Thomas AG**, Holscher CM, Massie AB, Henderson ML, Anjum S, Locke JE, Segev DL. Sexual Dysfunction Among Living Kidney Donors. In: *American Society of Transplant Surgeons*, Miami, FL, USA, January 26-29, 2017.

- [8] Long A, Hutton H, Mbabali I, **Thomas AG**, Bugos E, Mulamba J, Amico KR, Nalugoda F, Gray R, Wawer M, Nakigozi G, Chang LW. Evaluation of a Motivational Interviewing-Informed, mHealth-Supported CHW Training Program to Promote HIV Treatment and Prevention in a HIV Hotspot Ugandan Fishing Community. In: *International Association of Providers of AIDS Care*, Fort Lauderdale, FL, USA, May 9-11, 2016.
- [9] Chang LW, Mbabali I, Kong X, Hutton H, Long A, **Thomas AG**, Bugos E, Ssekasanvu J, Kennedy C, Amico KR, Nalugoda F, Reynolds SJ, Quinn T, Serwadda D, Gray R, Wawer M, Nakigozi G. A Cluster-Randomized Trial to Promote Combination HIV Prevention Using mHealth-Supported CHWs in a High-Prevalence Ugandan Fishing Community: Design and Baseline Characteristics of the mLAKE Trial. In: *International AIDS Conference*, Durban, South Africa, July 18-22, 2016.
- [10] **Thomas AG**, Erickson J, Strickland K, Barnes A. Iterative Gaussian mixture model splitting of multimodal PSTH for studying activity dependent changes in cultured network connectivity. In: *Society for Neuroscience*, San Deigo, CA, USA, November 9-13, 2013.

- Presentor(s) underlined

#### INVITED TALKS

- [1] The National Landscape of Living Kidney Donor Follow-up in the United States. In: *American Society of Transplantation and American Journal of Transplantation Journal Club*, Online, December 7, 2017.

#### TEACHING EXPERIENCE

**Johns Hopkins University Bloomberg School of Public Health**, Baltimore, MD

*Guest Lecturer*

**May 2017**

- **340.600.01: Stata Programming**
  - Graduate course in intermediate Stata programming
  - Main instructors: Dorry L. Segev, Allan B. Massie
  - Lecture: “Lab: From a Dirty Dataset to Table 1”
  - Enrollment: 281

#### RESEARCH EXPERIENCE

**Research Data Analyst** | Johns Hopkins University | 2016-Present

- Responsible for data analysis and manuscript preparation for >20 research projects in transplantation epidemiology. Manage data for an ongoing NIH-funded prospective study of living donors. Support the development of novel eHealth technologies for kidney donors engagement. Develop and maintain statistical software in R and Stata. Advisor: Dorry Segev, MD PhD

**Research Assistant** | Rakai Health Science Program | 2015-2016

- Trained community health workers and study staff involved in the implementation of two NIH-funded studies in Rakai, Uganda. Developed the standard operating procedures for data quality and management and contributed to the development of study questionnaires and protocols. Developed analytic R scripts to regularly generate weekly study implementation reports. Assisted in the development and testing of two mHealth applications. Advisor: Larry Chang, MD MPH.

**Data Manager** | Johns Hopkins University | 2016

- Performed data management activities to ensure data quality using SAS, EpiInfo, and Stata for the NSEBA Study which aims to improve detection of pediatric HIV in Zambia. Advisor: Catherine Sutcliffe, PhD.

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|                       | <p><b>Research Assistant</b>   International Vaccine Access Center   2014-2015</p> <ul style="list-style-type: none"> <li>Abstracted data from &gt;100 journal articles for a systematic review that aimed to estimate the global burden of Haemophilus influenza type B, Streptococcus Pneumoniae, and Neisseria meningitides.</li> </ul> <p><b>Student Reseracher</b>   Shepherd Poverty Program   2013</p> <ul style="list-style-type: none"> <li>Analyzed data from the CDC Health, 2011 report to present longitudinal data analysis on the relationship between socioeconomic status and health status. Funded by the University Research Scholarship. Advisor: Harlan Beckley, PhD</li> </ul> <p><b>Biomedical Engineering Technician</b>   Engineering World Health   2013</p> <ul style="list-style-type: none"> <li>Fully repaired 20 medical devices, took full inventories of the Rubavu hospital and its ten surrounding health clinics, and conceptualized a novel medical device to perform lab equipment calibrations in resource-scarce environments.</li> </ul>   |
| AMERICORPS<br>SERVICE | <p><b>Robotics Program Founder</b>   Lexington City Schools   2011-2014</p> <ul style="list-style-type: none"> <li>Created and ran a program that uses Lego NXT robots to introduce middle school and elementary students to robotics, computer science, and engineering design utilizing a \$2500 grant from NSF.</li> </ul> <p><b>Shift Leader</b>   Campus Kitchens Project   2011-2014</p> <ul style="list-style-type: none"> <li>Addressed local hunger as a ServSafe-certified manager by supervising shifts that collected, prepared, and served over 300 meals/week.</li> </ul> <p><b>Trip Coordinator</b>   Volunteer Venture Program   2011-2013</p> <ul style="list-style-type: none"> <li>Coordinated three weeklong service trips for incoming students, which involves budget management and logistical planning.</li> </ul> <p><b>Therapeutic Nursery Intern</b>   Kennedy Krieger Institute   2011</p> <ul style="list-style-type: none"> <li>Conducted play-therapy sessions with homeless toddlers and their families. Provided care for the children and assisted with an active study in child psychology.</li> </ul> <p><b>Patient Eligibility Intern</b>   Rockbridge Area Health Center   2010-2012</p> <ul style="list-style-type: none"> <li>Helped manage the medical database, helped eligible patients acquire free medication from pharmaceutical companies, and answered patient questions by phone.</li> </ul> |
| SOFTWARE<br>SKILLS    | <p>Statistical/Numerical Analysis:</p> <ul style="list-style-type: none"> <li>Stata, R, SAS, MATLAB, Maple</li> </ul> <p>Computer Programming:</p> <ul style="list-style-type: none"> <li>Java, C++, C, Python, SQL</li> </ul> <p>Version Control:</p> <ul style="list-style-type: none"> <li>Git (GitHub/GitLab)</li> </ul> <p>Productivity and Editing Software:</p> <ul style="list-style-type: none"> <li>Atom, Xcode, RStudio</li> <li>TeX (L<sup>A</sup>T<sub>E</sub>X, B<sub>I</sub>B<sub>T</sub>E<sub>X</sub>)</li> <li>Microsoft Office, LibreOffice, Google Docs, iWork, EndNote</li> <li>GIMP, Adobe Photoshop</li> </ul> <p>Operating Systems:</p> <ul style="list-style-type: none"> <li>Apple MacOS, Microsoft Windows, Linux (Fedora, SGE)</li> </ul>  |
| AWARDS                | <p>American Transplant Congress 2017</p> <ul style="list-style-type: none"> <li>Best of Congress Poster for "Use of Pulsatile Perfusion Modifies the Effect of Delayed Graft Function on Graft Failure"</li> </ul>  |

- Poster of Distiction for "Use of Pulsatile Perfusion Modifies the Effect of Delayed Graft Function on Graft Failure"

Johns Hopkins University Bloomberg School of Public Health

- Center for Global Health Established Field Placement/Pilot Grant, 2015

Washington and Lee University

- Algernon Sydney Sullivan Award, 2014
- Omicron Delta Kappa Leader of the Year, 2014
- Sigma Pi Sigma Physics Honor Society, 2013
- Johnson Opportunity Grant, 2013
- Evans International Grant, 2013
- Avis P. Waring Scholarship, 2013
- Omicron Delta Kappa Leadership Honor Society, 2013
- Beta Beta Beta Biological Honor Society, 2011
- Bonner Scholarship, 2010
- Johnson Scholarship, 2010-2014