Alvin G. Thomas Curriculum vitae

# CONTACT Information

The University of North Carolina at Chapel Hill

School of Public Health, Department of Epidemiology

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# RESEARCH INTERESTS

Healthy Aging with End-Stage Renal Disease: My research explores the relationship between neurons and nephrons, with a specific focus on clinically important epidemiologic questions at the intersection of vascular and cognitive aging. Patients with declining kidney function are at higher risk of cognitive decline and incident dementia. I hope to identify interventions to improve kidney disease outcomes and promote healthy aging.

Advancing Epidemiologic Methods: As an educator, I hope to shorten the lag between the development of advanced epidemiologic and biostatistical tools and their application in chronic disease epidemiology.

Patient-Centered eHealth: I am also involved in the development of a number of eHealth tools designed to connect, educate, and empower solid organ transplant donors and recipients.

# CURRENT POSITION

**Doctoral Student**, The University of North Carolina School of Public Health, Department of Epidemiology 2018-Present

#### **EDUCATION**

#### The University of North Carolina, Chapel Hill, NC

PhD, Epidemiology, In Progress

Focus: Cardiovascular Epidemiology
Adviser: Gerardo M. Heiss, MD, PhD

#### The Johns Hopkins University, Baltimore, MD

MSPH, International Health, May 2016

- Focus: Global Disease Epidemiology and Control (GDEC)
- Thesis: The mLAKE Community Trial: Using mHealth to Empower CHWs to Encourage Combination HIV Prevention
- Adviser: Larry W. Chang, MD, MPH

# Washington and Lee University, Lexington, VA

BS, Chemistry-Engineering, May 2014

- *Honors* in Engineering
- Minor in Poverty and Human Capabilities
- Thesis: Plasticity in Dissociated Neuronal Networks under Chronic Stimulation
- Adviser: Jonathan Erickson, PhD

# PEER-REVIEWED JOURNAL ARTICLES

AG Thomas in bold; † Indicates Equal Effort; Sorted by Publication Date (Last in/First Out)

- [28] Al Ammary F†, **Thomas AG**†, Massie AB, Muzaale AD, Shaffer AA, Koons B, Qadi MA, Crews DC, Garonzik-Wang J, Fang H, Brennan DC, Lentine KL, Segev DL, Henderson ML. The Landscape of International Living Kidney Donation in the United States. *American Journal of Transplantation*. Accepted. PMID:30615253 doi:10.1111/ajt.15256
- [27] Ruck JM<sup>†</sup>, Henderson ML<sup>†</sup>, Eno AK, Rasmussen SEVP, DiBrito SR, **Thomas AG**, Li R, Singer L, Massie I, Waldram MM, Konel JM, Helfer DR, Garonzik-Wang JM, Purnell T, Mogul DB, Lentine K, Waterman AD, Segev DL. Use of Twitter in Communicating Living Solid Organ Donation Information to the Public: An Exploratory Study of Living Donors and Transplant Professionals. *Clinical Transplantation*. Accepted. PMID:30421841 doi:10.1111/ctr.13447

- [26] Haugen CE, Holscher CM, Luo X, Bowring MG, Orandi BJ, **Thomas AG**, Garonzik Wang J, Massie AB, Philosophe B, McAdams-DeMarco M, Segev DL. Trends in Liver Transplantation with Older Liver Donors. Accepted.
- [25] Henderson ML, Thomas AG, Eno AK, Waldram MM, Bannon J, Massie AB, Levan MA, Segev DL, Bingaman AW. Improving Living Kidney Donor Follow-up Using Mobile Health: A Pilot Randomized Control Trial. Journal of Internet Medical Research Research Protocols. Accepted.
- [24] Holscher CM, Leanza J, Thomas AG, Waldram MM, Haugen CE, Jackson K, Bae S, Massie AB, Segev DL. Anxiety, Depression, and Regret of Donation in Living Kidney Donors. BMC Nephrology. In Press. PMID:30180815 doi:10.1186/s12882-018-1024-0
- [23] Shaffer AA, **Thomas AG**, Bowring MG, Rasmussen SEVP, Cash A, 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. *Transplant Infectious Disease*. In Press. PMID:30144258 doi:10.1111/tid.12982
- [22] Thomas AG†, Ruck JM†, Shaffer AA, Haugen CE, Ying H, Warsame F, Chu N, Carlson MC, Gross AL, Norman SP, Segev DL, McAdams-DeMarco M. Cognitive Impairment and Graft Loss in Kidney Transplant Recipients. *Transplantation*. In Press. PMID:30153224 doi:10.1097/TP.0000000000002431
- [21] Holscher CM, Bae S, **Thomas AG**, Henderson ML, Haugen CE, DiBrito SR, Muzaale AD, Garonzik-Wang JM, Massie AB, Lentine KL, Segev DL. Early Hypertension and Diabetes after Living Kidney Donation. *Transplantation*. In Press. PMID:30247449 doi:10.1097/TP.00000000000002411
- [20] Warsame F, Ying H, Haugen CE, Thomas AG, Crews DC, Shafi T, Jaar B, Segev DL, McAdams-DeMarco MA. Intradialytic Activities and Health-Related Quality of Life among Hemodialysis Patients. American Journal of Nephrology. In Press. PMID:30176670 doi:10.1159/000492623
- [19] Holscher CM, Jackson K, Thomas AG, Haugen CE, DiBrito SR, Covarrubias K, Gentry SE, Ronin M, Waterman AD, Massie AB, Garonzik Wang J, Segev DL. Temporal Changes in the Composition of a Large Multicenter Kidney Exchange Clearinghouse: Do the Hardto-Match Accumulate? American Journal of Transplantation. In Press. PMID:30063811 doi:10.1111/ajt.15046
- [18] Eno AK, Thomas AG, Ruck JM, Rasmussen SEVP, Halpern SE, Waldram MM, Muzaale AD, Purnell TS, Massie AB, Garonzik Wang J, Lentine KL, Segev DL, Henderson ML. Assessing the Attitudes and Perceptions Regarding the Use of Mobile Health Technologies for Living Kidney Donor Follow-Up: Survey Study. Journal of Internet Medical Research mHealth and uHealth. Accepted. PMID:30305260 doi:10.2196/11192
- [17] Zhou S, Massie AB, Holscher CM, Waldram MM, Ishaque T, Thomas AG, Segev DL. Prospective Validation of Prediction Model for Kidney Discard. Transplantation. In Press. PMID:30015701 doi:10.1097/TP.000000000002362
- [16] Bae S, Massie AB, Thomas AG, Bahn G, Luo X, Jackson KR, Ottmann SE, Brennan DC, Desai NM, Coresh J, Segev DL, Garonzik Wang JM. Who Can Tolerate a Marginal Kidney? Predicting Survival after Deceased-Donor Kidney Transplantation by Donor-Recipient Combination. American Journal of Transplantation. In Press. PMID:29935051 doi:10.1111/ajt.14978
- [15] Rasmussen SEVP, 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. Transplant International. In Press. PMID:29802802 doi:10.1111/tri.13282
- [14] Kumar K, Tonascia JM, Muzaale AD, Purnell TS, Ottmann SE, Al Ammary F, Bowring MG, Poon A, King EA, Massie AB, Chow EKH, **Thomas AG**, Ying H, Borja M, Konel

- JM, Henderon ML, Cameron AM, Garonzik-Wang JM, Segev DL. Racial differences in completion of the living kidney donor evaluation process. *Clinical Transplantation*. In Press. PMID:29791039 doi:10.1111/ctr.13291
- [13] Henderson ML, Adler JT, Rasmussen SEVP, Thomas AG, Herron PD, Waldram M, Ruck JM, Purnell TS, DiBrito SR, Holscher CM, Haugen CE, Alimi Y, Konel JM, Eno AK, Garonzik-Wang JM, Gordon EJ, Lentine KL, Schaffer RL, Cameron AM, Segev DL. How Should Social Media Be Used in Transplantation? A Survey of The American Society of Transplant Surgeons. Transplantation. In Press. PMID:29684002 doi:10.1097/TP.0000000000002243
- [12] Haugen CE, Mountford A, Warsame F, Berkowitz R, Bae S, Thomas AG, Brown C, Brennan D, Neufeld KJ, Carlson MC, Segev DL, McAdams-DeMarco M. Incidence, Risk Factors, and Sequelae of Post-kidney Transplant Delirium. *Journal of the American Society of Nephrology*. In Press. PMID:29685884 doi:10.1681/ASN.2018010064
- [11] 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, Inflammatory Markers, and Waitlist Mortality Among Patients with End-Stage Renal Disease in a Prospective Cohort Study. *Transplantation*. In Press. PMID:29677074 doi:10.1097/TP.00000000000002213
- [10] Flechner SM, Thomas AG, Ronin M, Veale JL, Leeser DB, Kapur S, Piepert JD, Segev DL, Henderson ML, Shaffer AA, Cooper M, Hil G, Waterman AD. The First 9 years of Kidney Paired Donation Through the National Kidney Registry: Characteristics of Donors and Recipients Compared to National Live Donor Transplant Registries. American Journal of Transplantation. In Press. PMID:29603640 doi:10.1111/ajt.14744
- [9] 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 Registry and Validation Study. *Transplantation*. In Press. PMID:29570165 doi:10.1097/TP.0000000000002190
- [8] Durand CM<sup>†</sup>, Bowring MG<sup>†</sup>, Thomas AG, Kucirka LM, Massie AB, Cameron A, Desai NM, Sulkowski M, Segev DL. The Drug Overdose Epidemic and Deceased-Donor Transplantation in the United States: A National Registry Study. *Annals of Internal Medicine*. 2018 April 17. PMID:29710288 doi:10.7326/M17-2451
- [7] Holscher CM, Jackson K, Chow EKH, Thomas AG, Haugen CE, DiBrito SR, Purcell C, Ronin M, Waterman AD, Garonzik-Wang J, Massie AB, Gentry SE, Segev DL. Kidney Exchange Match Rates in a Large Multicenter Clearinghouse. *American Journal of Transplantation*. 2018 March 9. PMID:29437286 doi:10.1111/ajt.14689
- [6] Henderson ML†, DiBrito SR†, Thomas AG, Holscher CM, Shaffer AA, Bowring MG, Purnell TS, Massie AB, Garonzik-Wang JM, Waldram M, Lentine KL, Segev DL. Landscape of Living Multi-organ Donation in the United States: A Registry-Based Cohort Study. Transplantation. 2018 Jan 11. PMID:29952925 doi:10.1097/TP.00000000000002082
- [5] Ruck JM, Zhou S, Thomas AG, Cramm SL, Massie AB, Montgomery JR, Berger JC, Henderson ML, Segev DL. Electronic messaging and communication with living kidney donors. Clinical Transplantation. 2017 Dec 27. PMID:29281129 doi:10.1111/ctr.13184
- [4] Henderson ML†, **Thomas AG**†, 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. *American Journal of Transplantation*. 2017 Dec 1. PMID:28510355 doi:10.1111/ajt.14356
- [3] Treat E, Chow EKH, Peipert JD, Waterman A, Kwan L, Massie AB, Thomas AG, Bowring MG, Leeser D, Flechner S, Melcher ML, Kapur S, Segev DL, Veale J. Shipping Living Donor Kidneys and Transplant Recipient Outcomes. *American Journal of Transplantation*. 2017 Nov 22. PMID:29165871 doi:10.1111/ajt.14597

- [2] Long A, Mbabali I, Hutton HE, Thomas AG, 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. Journal of the International Association of Providers of AIDS Care. 2017 May 22. 5:499-505 PMID:28528560 doi:10.1177/2325957417709089
- [1] Perin J, **Thomas AG**, 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. *The Journal of Pediatrics*. 2016 Nov 30; 178:34-9. PMID:27496267 doi:10.1016/j.jpeds.2016.06.077

# OTHER ARTICLES

- AG Thomas in bold; † Indicated Equal Effort; Sorted by Submission Date (Last In/First Out)
  - [1] Contributors to the C4 Article. Current opinions in organ allocation. American Journal of Transplantation. 2018 October 10. PMID:30303603 doi:10.1111/ajt.15094

# Journal Articles Under Review

- AG Thomas in bold; † Indicated Equal Effort; Sorted by Submission Date (First In/First Out)
- [1] Halpern SE, **Thomas AG**, Holscher CM, Massie AB, Henderson ML, Anjum S, Alejo JL, Boyarsky BJ, Locke JE, Segev DL. Sexual Dysfunction and Living Kidney Donation. First Submitted 10/2017.
- [2] Rasmussen SEVP, Zhou S, Thomas AG, Segev DL, Nicholas NH. Transplant Community Perceptions of the Benefits and Drawbacks of Alternative Quality Metrics for Regulation. First Submitted 6/2018.
- [3] Leeser DB, Thomas AG, Shaffer AA, Veale JL, Massie AB, Cooper M, Kapur Sandip, Turgeon N, Segev DL, Waterman AD, Flechner SM. Kidney Paired Donation Transplant Outcomes: Experiences from the First Nine Years of the National Kidney Registry. First Submitted 9/2018.
- [4] Jackson KR, Holscher CM, Thomas AG, Ronin M, Waterman AD, Cooper M, Hiller JM, Cecka M, Henderson M, Massie AB, Desai NM, Gentry S, Segev DL, Garonzik Wang J. Desensitization in a Large, Multicenter Kidney Paired Donation Clearinghouse. First Submitted 11/2018.
- [5] **Thomas AG**, Ruck JM, Chu N, Shaffer AA, Haugen CE, Ying H, Swenor B, Norman SP, Garonzik Wang J, Segev DL, McAdams-DeMarco M. Kidney Transplant Outcomes in Recipients with Visual Impairment, Hearing Impairment, Physical Disability, and Walking Disability: A Prospective Cohort Study. First Submitted 12/2018.

# JOURNAL ARTICLES UNDER REVISION

- AG Thomas in bold; † Indicated Equal Effort; Sorted by Submission Date (First In/First Out)
- [1] Eno AK, Ruck JM, Rasmussen SEVP, Waldram MM, **Thomas AG**, Purnell TS, Garonizk-Wang JM, Massie AB, Al Almmary F, Cooper LM, Segev DL, Levan MA, Henderson ML. Perspectives on Implementing Mobile Health Technology for Living Kidney Donor Follow-up: In-Depth Interviews with Transplant Providers. First Submitted 10/2018.
- [2] Al Ammary F, Bowring MG, Massie AB, Yu S, Waldram MM, Garonzik Wang J, Thomas AG, Holscher CM, Qadi MA, Henderson ML, Wiseman A, Gralla J, Brennan DC, Segev DL, Muzaale AD. The Changing Landscape of Live Kidney Donation in the United States From 2005 to 2017. First Submitted 10/2018.

# Conference Talks

- AG Thomas in bold; † Indicated Equal Effort; Presentor(s) underlined; Sorted by Presentation Date (Last in/First Out)
- [22] Thomas AG, Ruck JM, Haugen C, Shaffer AA, Ying H, Norman S, Garonzik Wang J, Segev DL, Mara McAdams-DeMarco. Kidney Transplant Outcomes in Recipients with Physical Disabilities. In: Asian Transplant Week, Bexco, Busan, South Korea, November 8-10, 2018.

- [21] <u>Thomas AG</u>, Ruck J, Shaffer A, Ying H, Norman S, Garonzik-Wang J, Segev D, McAdams-DeMarco M. Outcomes for Kidney Transplant Recipients with Hearing, Visual, Physical, and Walking Disabilities. In: *American Society of Nephrology Kidney Week*, San Diego, CA, USA, October 25-28, 2018.
- [20] Massie AB, Thomas AG, Snyder JJ, Segev DL. Clinical Utility and Interpretation of CKD Stages in Living Kidney Donors. In: American Society of Nephrology Kidney Week, San Diego, CA, USA, October 25-28, 2018.
- [19] Thomas AG, Ruck J, Shaffer AA, Haugen C, Ying H, Warsame F, Chu N, Carlson M, Gross A, Norman S, Segev DL, <u>McAdams-DeMarco M</u>. Cognitive Impairment and Graft Loss in Kidney Transplant Recipients. In: *International Congress of The Transplantation Society*, Madrid, Spain, June 30-July 5, 2018.
- [18] McAdams-DeMarco M, Ying H, **Thomas AG**, Warsame F, Shaffer AA, Haugen C, Garonzik Wang J, Desai N, Varadhan R, Walston J, Norman S, Segev DL. Frailty, Inflammation, and Waitlist Mortality among Patients with End-Stage Renal Disease on the Kidney Transplant Waitlist. In: *International Congress of The Transplantation Society*, Madrid, Spain, June 30-July 5, 2018.
- [17] Massie AB, Fahmy LM, Henderson ML, Thomas AG, Snyder J Al Ammary F, Segev DL. Pre-Donation Renal Function, Early Post-Donation Renal Function, and Subsequent ESRD Risk in Living Kidney Donors. In: *International Congress of The Transplantation Society*, Madrid, Spain, June 30-July 5, 2018.
- [16] <u>Thomas AG</u>, Shaffer AA, Ying H, Norman S, Segev DL, McAdams-DeMarco M. Prevalence of Frailty among Kidney Transplant Recipients in the United States. In: *American Transplant Congress*, Seattle, WA, USA, June 2-6, 2018.
- [15] <u>Thomas AG</u>, Holscher C, Shaffer AA, Garonzik-Wang J, Massie AB, Segev DL, Henderson ML. Living Liver Donor Follow-Up: Fewer than Half of Centers Meet Follow-Up Requirements in the US. In: *American Transplant Congress*, Seattle, WA, USA, June 2-6, 2018.
- [14] <u>Thomas AG</u>, Henderson ML, Shaffer AA, Massie AB, Koons B, Lentine K, Segev DL, Al Ammary F. Landscape of Living Donor Kidney Transplantation with International Donors in the United States. In: *American Transplant Congress*, Seattle, WA, USA, June 2-6, 2018.
- [13] <u>Flechner S</u>, **Thomas AG**, Ronin M, Veale J, Leeser D, Kapur S, Piepert J, Hil G, Waterman A. The First 9 years of KPD Through the National Kidney Registry: Characteristics of Donors and Recipients Compared to National Live Donor Transplant Registries. In: *American Transplant Congress*, Seattle, WA, USA, June 2-6, 2018.
- [12] <u>Massie A</u>, Henderson M, **Thomas AG**, Snyder J, Segev DL. Pre-Donation eGFR, Early Post-Donation eGFR, and Subsequent ESRD Risk in Living Kidney Donors. In: *American Transplant Congress*, Seattle, WA, USA, June 2-6, 2018.
- [11] <u>Bae S</u>, Garonzik-Wang J, Jackson K, **Thomas AG**, Luo X, Massie AB, Segev DL. Predicting Survival after Deceased-Donor Kidney Transplants by Donor-Recipient Match: Who Can Tolerate a High-KDPI Kidney? In: *American Transplant Congress*, Seattle, WA, USA, June 2-6, 2018.
- [10] Bowring M, Durand C, Kucirka L, **Thomas AG**, Massie A, Sulkowski M, Cameron A, Niraj D, Segev DL. Discard and post-transplant outcomes associated with organs donated after drug-overdose death. In: *American Transplant Congress*, Seattle, WA, USA, June 2-6, 2018.
- [9] Shaffer AA, Thomas AG, Masse AB, Gustafson S, Synder J, Shelton B, Reed R, Locke JE, Segev DL, Durand C. Waitlist Outcomes and Access to Liver Transplantation for HIV+ Candidates. In: *American Transplant Congress*, Seattle, WA, USA, June 2-6, 2018.

- [8] Holscher C, Jackson K, Thomas AG, Haugen C, DiBrito S, Ronin M, Waterman A, Massie AB, Garonzik-Wang J, Segev DL. Temporal Changes in the Characteristics and Sensitization of Kidney Paired Donation Registrants. In: American Transplant Congress, Seattle, WA, USA, June 2-6, 2018.
- [7] <u>Haugen C</u>, Luo X, **Thomas AG**, Holscher C, Garonizk-Wang J, McAdams-DeMarco M, Segev DL. Trends in Liver Transplantation with Older Liver Donors in the United States. In: *American Transplant Congress*, Seattle, WA, USA, June 2-6, 2018.
- [6] Rasmussen S, Zhou S, Thomas AG, Segev DL, Hersh Nicholas L. Transplant Community Perceptions of the Benefits and Drawbacks of Alternative Quality Metrics for Regulation. In: American Transplant Congress, Seattle, WA, USA, June 2-6, 2018.
- [5] 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. In: *International Conference on Frailty & Sarcopenia Research*, Miami Beach, FL, USA, March 1 3, 2018.
- [4] Ruck JM†, Thomas AG†, Shaffer AA, Haugen CE, Ying H, Warsame F, Chu N, Carlson MC, Gross AL, Norman SP, Segev DL, McAdams-DeMarco MA Cognitive Impairment and Graft Loss in Kidney Transplant Recipients. In: *Academic Surgical Congress*, Jacksonville, FL, USA, January 30 February 1, 2018.
- [3] <u>Holscher C</u>, Chow E, **Thomas AG**, Purcell C, Ronin M, Garonzik-Wang J, Massie, A, Gentry S, Segev DL. Time to Match in a Large, Multi-center Kidney Paired Donation Registry. In: *Academic Surgical Congress*, Jacksonville, FL, USA, January 30 February 1, 2018.
- [2] Holscher C, Jackson K, Thomas AG, Purcell C, Ronin M, Massie, A, Garonzik-Wang J, Segev DL. Kidney Paired Donation Programs Don't Become Concentrated with Highly Sensitized Candidates Over Time. In: Academic Surgical Congress, Jacksonville, FL, USA, January 30 - February 1, 2018.
- [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

- AG Thomas in bold; † Indicated Equal Effort; Presentor(s) underlined; Sorted by Presentation Date (Last in/First Out)
- [56] Thomas AG, Ruck J, Haugen C, Shaffer A, Ying H, Norman S, Garonzik-Wang J, Segev D, McAdams-DeMarco M. Outcomes for Kidney Transplant Recipients with Hearing, Visual, Physical, and Walking Disabilities. In: American Society of Transplant Surgeons, Miami, FL, USA, January 10-13, 2019.
- [55] Waldram M, DiBrito S, Thomas AG, Eno A, Rasmussen SEVP, Al Ammary F, Ottman S, Massie A, Garonizk-Wang J, Segev D, Henderson M. Financial Incentivization versus Standard of Care to Promote Patient Compliance with OPTN Live Kidney Donor Follow-up. In: American Society of Transplant Surgeons, Miami, FL, USA, January 10-13, 2019.
- [54] Stanton J, King E, Eno A, Ruck J, Shaffer A, Thomas AG, Waldram M, Garonzik-Wang J, Cameron A, Kahn J, Erby L, Henderson M, Segev D. Assessing Pressure and Coercion to Donate among Candidates for Living Kidney Donation. In: American Society of Transplant Surgeons, Miami, FL, USA, January 10-13, 2019.
- [53] Yu S, Massie A, Bowring M, Waldram M, Garonizk-Wang J, Thomas AG, Holscher C, Henderson M, Segev D, Muzaale A, Al Ammary F. The Decline in Biologically Related Live Kidney Donation in the United States. In: American Society of Transplant Surgeons, Miami, FL, USA, January 10-13, 2019.

- [52] Shaffer A, Thomas AG, Segev D. Changes in Antiretroviral Medication Use in Liver Transplant Candidates with HIV. In: American Society of Transplant Surgeons, Miami, FL, USA, January 10-13, 2019.
- [51] Shaffer A, Ying H, Chu N, Thomas AG, Haugen C, Segev D, McAdams-DeMarco M. Access to the Kidney Transplant Waitlist for Patients with HIV. In: American Society of Transplant Surgeons, Miami, FL, USA, January 10-13, 2019.
- [50] Al Ammary F, Thomas AG, Massie A, Muzaale A, Segev D, Henderson M. The Landscape of International Living Kidney Donation in the United States. In: American Society of Transplant Surgeons, Miami, FL, USA, January 10-13, 2019.
- [49] Wilson J, Cooper L, Waldram M, Johnson M, Lacy N, Thomas AG, Crews D, Massie A, Henderson M, Segev D, Purnell T. Association Between Physician Trust and Hypertension Treatment Adherence Among Living Kidney Donors: The WHOLE Donor Hypertension Study. In: Annual Biomedical Research Conference for Minority Students, Indianapolis, IN, USA, November 14-17, 2018.
- [48] Thomas AG, Koons B, Shaffer A, Al Ammary F, Lentine K, McAdams-DeMarco M, Segev D, Henderson M. US-Listed Transplant Candidates that Travel Abroad for Transplant: A National Registry Study. In: American Society of Nephrology Kidney Week, San Diego, CA, USA, October 25-28, 2018.
- [47] Warsame FM, Ying H, Haugen CE, Thomas AG, Crews DC, Shafi T, Jaar BG, Segev DL, McAdams-DeMarco M. Intradialytic Activities and Health-Related Quality of Life. In: American Society of Nephrology Kidney Week, San Diego, CA, USA, October 25-28, 2018.
- [46] Shaffer AA, Ying H, Chu NM, Thomas AG, Haugen CE, Segev DL, McAdams-DeMarco M. Access to the Kidney Transplant Waitlist for Patients with HIV and ESRD. In: American Society of Nephrology Kidney Week, San Diego, CA, USA, October 25-28, 2018.
- [45] Thomas AG, Ruck J, Shaffer AA, Haugen C, Ying H, Warsame F, Chu N, Carlson M, Gross A, Norman S, Segev DL, McAdams-DeMarco M. Kidney Transplant Outcomes in Recipients with Cognitive Impairment: A National Registry and Prospective Cohort Study. In: Society of Epidemiologic Research, Baltimore, MD, USA, June 19-22, 2018.
- [44] <u>Thomas AG</u>, Shaffer AA, Ying H, Norman S, Segev DL. McAdams-DeMarco M. Prevalence of Frailty among Kidney Transplant Recipients in the United States. In: *Society of Epidemiologic Research*, Baltimore, MD, USA, June 19-22, 2018.
- [43] <u>Bae S</u>, Garonzik-Wang J, Jackson K, **Thomas AG**, Luo X, Bahn G, Massie AB, Coresh J, Segev DL. Who can Tolerate a Marginal Kidney? Predicting Survival After Deceased Donor Kidney Transplantation by Donor-Recipient Combination. In: *Society of Epidemiologic Research*, Baltimore, MD, USA, June 19-22, 2018.
- [42] McAdams-DeMarco M, Ying H, Thomas AG, Warsame F, Shaffer A, Haugen C, Varadhan R, Walston J, Segev D. Frailty, Inflammation, and Waitlist Mortality Among Patients With End-Stage Renal Disease. In: Society of Epidemiologic Research, Baltimore, MD, USA, June 19-22, 2018.
- [41] McAdams-DeMarco M, Haugen C, Ying H, Warsame F, **Thomas AG**, Brown C IV, Neufeld K, Carlson M, Segev DL. Incidence, Risk Factors, and Sequelae of Post-Kidney Transplant Delirium. In: *Society of Epidemiologic Research*, Baltimore, MD, USA, June 19-22, 2018.
- [40] Shaffer AA, Thomas AG, Massie AB, Gustafson S, Snyder J, Shelton B, Reed R, Locke JE, McAdams-DeMarco M, Segev DL. Estimating the Prevalence of HIV Among Liver Transplant Candidates In The United States. In: Society of Epidemiologic Research, Baltimore, MD, USA, June 19-22, 2018.

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#### 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.
- [2] Utilizing Digital Tools for Living Kidney Donor Follow-up. In: Texas Transplant Institute at Methodist Hospital, San Antonio, TX, USA, March 5, 2018.
- [3] Scientific Insights from Nine Years of the National Kidney Registry. In: *Johns Hopkins University Division of Immunogentics and Transplantation Immunology*, Baltimore, MD, USA, June 12, 2018.

Extramural Funding

# NIH, National Heart, Lung, and Blood Institute (NHLBI)

5T32HL007055 Rosamond & Heiss (Co-PIs) 8/18/2018-8/17/2019 12 months (100%) Cardiovascular Epidemiology Training Grant

Primary Goals: Pre-doctoral training grant to develop the requiste research skills and expertise in the area of cardiovascular disease epidemiology and outcomes research.

Role: Predoctoral Trainee

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: "From a Dirty Dataset to Table 1"

• Enrollment: 281

RESEARCH EXPERIENCE

#### Research Data Analyst | Johns Hopkins University | 2016-2018

• Responsible for data analysis and manuscript preparation for >30 research projects in transplantation epidemiology. Managed data for an ongoing NIH-funded prospective study of living donors. Supported the development of novel eHealth technologies for kidney donors engagement and follow-up. Developed and maintained 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.

#### Research Assistant | International Vaccine Access Center | 2014-2015

• Abstracted data from >100 journal articles for a systematic review that aimed to estimate the global burden of Haemophilus influenza type B, Streptococcus Pneumoniae, and Neisseria meningitides.

# Student Reseracher | Shepherd Poverty Program | 2013

• 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

#### Biomedical Engineering Technician | Engineering World Health | 2013

• 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.

AMERICORPS SERVICE

# Robotics Program Founder | Lexington City Schools | 2011-2014

• 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.

#### Shift Leader | Campus Kitchens Project | 2011-2014

• Addressed local hunger as a ServSafe-certified manager by supervising shifts that collected, prepared, and served over 300 meals/week.

# Trip Coordinator | Volunteer Venture Program | 2011-2013

Coordinated three weeklong service trips for incoming students, which involves budget management and logistical planning.

#### Therapeutic Nursery Intern | Kennedy Krieger Institute | 2011

• Conducted play-therapy sessions with toddlers and families experiencing homelessness. Provided care for the children and assisted with an active study in child psychology.

#### Patient Eligibility Intern | Rockbridge Area Health Center | 2010-2012

 Helped manage the medical database, helped eligible patients acquire free medication from pharmaceutical companies, and answered patient questions by phone.

# SOFTWARE SKILLS

## Statistical/Numerical Analysis:

• Stata, R, SAS, MATLAB, Maple

#### Computer Programming:

• Java, C++, C, Python, SQL

#### Version Control:

• Git (GitHub/GitLab)

#### Productivity and Editing Software:

- Atom, Xcode, RStudio
- TfX (LATfX, BibTfX)
- Microsoft Office, LibreOffice, Google Docs, iWork, EndNote
- GIMP, Adobe Photoshop

# Operating Systems:

• Apple MacOS, Microsoft Windows, Linux (Fedora, SGE)

#### AWARDS

#### American Society of Nephrology Kidney Week 2018

• Kidney STARS (Students and Residents) Travel Award

#### American Transplant Congress 2017

- Best of Congress Poster for "Use of Pulsatile Perfusion Modifies the Effect of Delayed Graft Function on Graft Failure"
- 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 Biological Honor Society, 2011
- Bonner Scholarship, 2010
- Johnson Scholarship, 2010-2014

#### ACTIVITES

#### Journal Peer Review (ad hoc)

- American Journal of Transplantation (AJT)
- Journal of Internet Medical Research (JMIR)

#### Conference Abstract Review

• Society for Epidemiologic Research, 2018-

#### Memberships

- Student Member, American Society of Nephrology (ASN), 2018-
- Trainee Member, Society for Epidemiologic Research (SER), 2017-
- Trainee Member, American Society of Transplant Surgeons (ASTS), 2016-
- Student Member, Society for Neuroscience (SFN), 2013