

CONTACT INFORMATION	<p>The University of North Carolina at Chapel Hill School of Public Health, Department of Epidemiology 123 West Franklin Street, Suite 410 Chapel Hill, NC 27516 USA</p>	<p><i>E-mail:</i> alvin@jhmi.edu <i>Github:</i> alvinthomas <i>Twitter:</i> @alvinthomas13 <i>LinkedIn:</i> @alvinthomas13</p>
RESEARCH INTERESTS	<p>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.</p> <p>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.</p> <p>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.</p>	
CURRENT POSITION	<p>Doctoral Student, The University of North Carolina School of Public Health, Department of Epidemiology</p>	2018-Present
EDUCATION	<p>The University of North Carolina, Chapel Hill, NC</p> <p>PhD, Epidemiology, In Progress</p> <ul style="list-style-type: none"> • Focus: Cardiovascular Epidemiology • Adviser: Gerardo M. Heiss, MD, PhD <p>The Johns Hopkins University, Baltimore, MD</p> <p>MSPH, International Health, May 2016</p> <ul style="list-style-type: none"> • Focus: Global Disease Epidemiology and Control (GDEC) • Thesis: <i>The mLAKE Community Trial: Using mHealth to Empower CHWs to Encourage Combination HIV Prevention</i> • Adviser: Larry W. Chang, MD, MPH <p>Washington and Lee University, Lexington, VA</p> <p>BS, Chemistry-Engineering, May 2014</p> <ul style="list-style-type: none"> • <i>Honors</i> in Engineering • Minor in Poverty and Human Capabilities • Thesis: <i>Plasticity in Dissociated Neuronal Networks under Chronic Stimulation</i> • Adviser: Jonathan Erickson, PhD 	
PEER-REVIEWED JOURNAL ARTICLES	<p>AG Thomas in bold; † Indicates Equal Effort; Sorted by Publication Date (Last in/First Out)</p> <p>[26] Contributors to the C4 Article. Current opinions in organ allocation. <i>American Journal of Transplantation</i>. 2018 October 10. PMID:30303603 doi:10.1111/ajt.15094</p> <p>[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. <i>Journal of Internet Medical Research Research Protocols</i>. Accepted.</p> <p>[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 Donor. <i>BMC Nephrology</i>. In Press. PMID:30180815 doi:10.1186/s12882-018-1024-0</p>	

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- [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 Hard-to-Match Accumulate? *American Journal of Transplantation*. In Press. PMID:30063811 doi:10.1111/ajt.15046
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- [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.0000000000002362
- [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
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- [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.0000000000002213
- [10] Flechner SM, **Thomas AG**, Ronin M, Veale JL, Leiser 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†, Bowring MG†, **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
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- [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.0000000000002082
- [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
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JOURNAL ARTICLES UNDER REVIEW	AG Thomas in bold; † Indicated Equal Effort; Sorted by Submission Date (First In/First Out) <ul style="list-style-type: none"> [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] Van Pilsum Rasmussen SE, 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] 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.
JOURNAL ARTICLES UNDER REVISION	AG Thomas in bold; † Indicated Equal Effort; Sorted by Submission Date (First In/First Out) <ul style="list-style-type: none"> [1] Ruck JM†, Henderson ML†, Eno AK, Van Pilsum Rasmussen SE, DiBrito SR, Thomas AG, Li R, Singer L, Massie I, Waldram MM, Konel JM, Helfer DR, Garonzik-Wang JM, Purnell T, Douglas B Mogul, Lentine K, Waterman AD, Segev DL. Use of Twitter in Communicating Living Donation Information to the Public: An Exploratory Study of Living Donors and Transplant Professionals. First Submitted 2017. [2] 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. First Submitted 5/2018. [3] 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. First Submitted 8/2018. [4] Leaser 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.
PRE-PRINTS	AG Thomas in bold; † Indicated Equal Effort; Sorted by Submission Date (First In/First Out) <ul style="list-style-type: none"> [1] Henderson ML, Thomas AG, Eno AK, Waldram MM, Bannon J, Massie AB, Levan MA, Sevinc G, Garrison VM, Seiguer SE, Segev DL, Bingaman AW. Improving Living Kidney Donor Follow-up Using Mobile Health: A Pilot Randomized Control Trial. First Submitted 5/22/2018.
CONFERENCE TALKS	AG Thomas in bold; † Indicated Equal Effort; Presenter(s) underlined; Sorted by Presentation Date (Last in/First Out) <ul style="list-style-type: none"> [20] <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: <i>American Society of Nephrology Kidney Week</i>, 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: <i>International Congress of The Transplantation Society</i>, Madrid, Spain, June 30-July 5, 2018. [18] <u>McAdams-DeMarco M</u>, 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: <i>International Congress of The Transplantation Society</i>, 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.
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- [15] **Thomas AG**, 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.
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- [13] Flechmer S, **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] Massie A, 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] Bae S, 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.
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- [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.
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- [39] Waldram M, **Thomas AG**, Holscher C, Nguyen A, Halpern S, Anjum S, Alejo J, Boyarsky B, Ottman S, Henderson M, Al-Ammary F, Garonzik Wang J, Segev DL, Massie AB. Long-Term Renal Function in Living Kidney Donors with Renal Cysts. In: *Society of Epidemiologic Research*, Baltimore, MD, USA, June 19-22, 2018.

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- [36] Shaffer AA, **Thomas AG**, Masse AB, Gustafson S, Snyder J, Shelton B, Reed R, Locke JE, Segev DL, Durand C. National Landscape for HIV+ Liver Transplant Candidates. In: *American Transplant Congress*, Seattle, WA, USA, June 2-6, 2018.
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- [27] Henderson M, Adler J, Rasmussen S, **Thomas AG**, Ruck J, Eno A, Purnell T, DiBrito S, Haugen C, Almi Y, Konel J, Garonzik-Wang J, Gordon E, Lentine K, Schaffer R, Massie A, Cameron A, Segev DL. How Should Social Media Be Used in Transplantation? A Survey of the American Society of Transplant Surgeons. In: *American Society of Transplant Surgeons*, Miami, FL, USA, January 11-14, 2018.
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- [10] **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.
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- [5] **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.
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- [3] 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.
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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 Immunogenetics and Transplantation Immunology*, Baltimore, MD, USA, June 12, 2018.

EXTRAMURAL FUNDING	<p>NIH, National Heart, Lung, and Blood Institute (NHLBI) 5T32HL007055 Rosamond & Heiss (Co-PIs) 8/18/2018-8/17/2019 12 months (100%) <i>Cardiovascular Epidemiology Training Grant</i> Primary Goals: Pre-doctoral training grant to develop the requisite research skills and expertise in the area of cardiovascular disease epidemiology and outcomes research. Role: Predoctoral Trainee</p>
TEACHING EXPERIENCE	<p>Johns Hopkins University Bloomberg School of Public Health, Baltimore, MD</p> <p><i>Guest Lecturer</i> May 2017</p> <ul style="list-style-type: none"> • 340.600.01: Stata Programming <ul style="list-style-type: none"> • 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	<p>Research Data Analyst Johns Hopkins University 2016-2018</p> <ul style="list-style-type: none"> • 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 <p>Research Assistant Rakai Health Science Program 2015-2016</p> <ul style="list-style-type: none"> • 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. <p>Data Manager Johns Hopkins University 2016</p> <ul style="list-style-type: none"> • 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. <p>Research Assistant International Vaccine Access Center 2014-2015</p> <ul style="list-style-type: none"> • 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. <p>Student Reseracher Shepherd Poverty Program 2013</p> <ul style="list-style-type: none"> • 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 <p>Biomedical Engineering Technician Engineering World Health 2013</p> <ul style="list-style-type: none"> • 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	<p>Robotics Program Founder Lexington City Schools 2011-2014</p> <ul style="list-style-type: none"> • 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. <p>Shift Leader Campus Kitchens Project 2011-2014</p> <ul style="list-style-type: none"> • 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
- \TeX (\LaTeX , \BibTeX)
- 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 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