**Kenneth Lee**

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**EDUCATION**

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| **Duke-NUS, Center for Quantitative Medicine**, Singapore  Doctor of Philosophy (PhD), Biostatistics | Aug 2020 – May 2024 (Expected) |
| *Committee: Dr. Roger Vaughan (Chair), Dr. Cheung Yin Bun (Advisor), Dr. Bibhas Chakraborty, Dr. Li Jialiang* | |
| **Vassar College**, Poughkeepsie, NY  Bachelor of Arts, Neuroscience | Aug 2014 – May 2018 |

**WORK EXPERIENCE**

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| **Graduate Researcher** | Aug 2020 – Present |
| Duke-NUS, Center for Quantitative Medicine, Singapore  *Supervisor: Dr. Cheung Yin Bun*   * Evaluating time-varying intervention effects in Cluster Randomized Trials, fixed effects models for the analysis of Stepped-Wedge Cluster Randomized Trials, and developing methods to control for bias in Self-Controlled Case Series. | |
| **Biostatistician** (part-time) | Jan 2022 – Jul 2022 |
| Singapore Clinical Research Institute, Singapore  *Supervisor: Dr. Mihir Gandhi*   * Reviewed statistical analysis plans for randomized clinical trials exploring the effects of continuous glucose monitoring on diabetes (GLiMPSE) and aspirin on colorectal cancer (ASCOLT). * Used SAS to generate and analyze ADaM datasets for data collected from a randomized longitudinal study of continuous glucose monitoring in the management of diabetes. | |
| **Bioinformatician** (part-time) | Dec 2021 – Feb 2023 |
| Treat Therapeutics, Singapore   * Interpreted microbiome sequencing results following 16s rRNA sequencing of canine fecal matter * Developed a straight-to-consumer report generating pipeline using Bioconductor in R. * Performed pathway analysis with Picrust2. * Used Differential Analysis to explore the effect of different probiotic treats on the canine gut microbiome. * Created a comparative scoring system to compare canine gut microbiome composition. | |
| **Research Associate** | Jul 2018 – Jul 2020 |
| Neuroscience Institute, NYU Langone Health, New York, NY  *Supervisor: Dr. James Salzer*   * Studied the role of MYPT1 in the assembly of the axon initial segment in mouse layer V pyramidal neurons. * Modelled the effect of demyelinating drugs on myelination in the mouse corpus collosum in R. | |

**ADDITIONAL EXPERIENCE**

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| **Biostatistics Trainee** | Aug 2020 – Present |
| Summer Institute for Training in Biostatistics (SIBS), Emory University, Atlanta, GA  *Supervisors: Dr. Reneé Moore, Dr. Lance Waller, Dr. Ixavier Higgins, Dr. Raphiel Murden, Dr. Andrea Lane*   * Performed three collaborative research studies incorporating modelling and survival analysis methods in R and SAS to analyze the efficacy of two sleep apnea treatments and to identify biomarkers of chronic kidney disease. | |
| **Undergraduate Thesis Researcher** | Jan 2022 – Jul 2022 |
| Department of Neuroscience, Vassar College, Poughkeepsie, NY  *Supervisors: Dr. Kevin Holloway, Dr. Kelli Duncan*   * Collected and evaluated data on the role of steroid hormones in response to traumatic brain injury in the Japanese quail brain using R. | |
| **Biostatistics Trainee** | Dec 2021 – Feb 2023 |
| Department of Neuroscience, Vassar College, Poughkeepsie, NY  *Supervisor: Dr. Justin Touchon*   * Compared different models in R for identifying the effects of flexible hatching timing and other covariates on red-eyed tree frog embryos and subsequent phenotype development of tadpoles. | |
| **Undergraduate Summer Researcher** | Jul 2018 – Jul 2020 |
| Department of Neuroscience and Cell Biology, Rutgers-RWJMS, New Brunswick, NJ  *Supervisors: Dr. Long-Jun Wu, Dr. Ukpong Eyo*   * Identified and presented findings on the role of the microglia P2Y12 receptor in neuroprotection, seizure intensity and microglia development. | |

**PUBLICATIONS**

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| 1. Mobley, A, … , **Lee, K. M.**, … Syndemic profiles of incarcerated men living with HIV in Malaysia transitioning back to the community: A Latent Class Analysis. (in progress; submitting to *AIDS and Behavior*) 2. **Lee, K. M.**, Yang, G. M., & Cheung, Y. B. Inclusion of unexposed clusters improves the precision of fixed effects analysis of stepped‐wedge cluster randomized trials with binary and count outcomes.(under review, *Journal of Biopharmaceutical Statistics*) 3. **Lee, K. M.** & Cheung, Y. B. Cluster Randomized Trial designs for modelling time-varying intervention effects (under review, *Statistics in Medicine*) 4. **Lee, K. M.** & Cheung, Y. B. Partitioned analysis reduces bias in self-controlled case series with recurrent events and event dependence (under review, *Statistics in Medicine*) 5. **Lee, K. M.** (2023)Boxing with George EP Box. *Significance*. (online article; in press) 6. **Lee, K. M.**, Ma, X., Yang, G. M., & Cheung, Y. B. (2022). Inclusion of unexposed clusters improves the precision of fixed effects analysis of stepped‐wedge cluster randomized trials. *Statistics in Medicine*, 41(15), 2923-2938. [<https://doi.org/10.1002/sim.9394>] 7. Arndtsen, C., Ballon, J., Blackshear, K., Corbett, C. B., **Lee, K.**, Peyer, J., ... & Duncan, K. A. (2019). Atypical gene expression of neuroinflammatory and steroid related genes following injury in the photoperiodic Japanese quail. *General and comparative endocrinology*, 288, 113361-113361. [<https://doi.org/10.1016/j.ygcen.2019.113361>] |

**PRESENTATIONS**

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| 1. **Lee, K. M.**, Cheung Y. B. (2023, September). Cutting the Gordian Knot: Partitioned Analysis of Self Controlled Case Series of non-rare recurrent events. Oral presentation at the Royal Statistical Society International Conference 2023, Harrogate, England. 2. **Lee, K. M.**, (2023, September). Boxing with George Box. Oral presentation at the Royal Statistical Society International Conference 2023, Harrogate, England. 3. **Lee, K. M.**, Poh, Z. W., Yeung K. F. (2022, February). Monitoring of treatment response in metastatic colorectal cancer patients with cfDNA. Oral presentation at the Duke-NUS PhD Student Research Symposium, Duke-NUS, Singapore. 4. Hiatt, K., Hu, M., **Lee, K. M.**, Tumasian III, R., Vega, S. (2018, July). Investigating Biomarkers of Kidney Function II. Oral presentation at the Summer Institute for Training in Biostatistics (SIBS), Emory University, Atlanta, GA. 5. Anderson, A., **Lee, K. M.**, Ling, S., Polani, A., Wang, A. (2018, July). Investigating Biomarkers of Kidney Function. Oral presentation at the Summer Institute for Training in Biostatistics (SIBS), Emory University, Atlanta, GA. |



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| 1. Holloway, J., **Lee, K. M.**, Ling, S., Struzeski, J. (2018, June). Comparing Caregiver Ratings for Behavior Responses of Children with Sleep Apnea. Oral presentation at the Summer Institute for Training in Biostatistics (SIBS), Emory University, Atlanta, GA. 2. **Lee, K. M.**, Corbett, C. (2017, November). Effect of Photoperiod and Brain Injury on Aromatase Expression in Japanese Quail. Poster presentation at the Society for Neuroscience (SFN) Undergraduate Research Poster Session, Washington D.C. 3. **Lee, K. M.**, Corbett, C. (2017, September). Comparative Analysis of Steroid Mediated Neuroprotection Across Vertebrates. Oral presentation at Undergraduate Research Summer Institute Symposium (URSI), Vassar College, Poughkeepsie, NY. 4. **Lee, K. M.** (2016, August). The Role of the P2Y12 Receptor in Microglial Development. Oral presentation at the Summer Undergraduate Research Program (SURP) in Neuroscience, Rutgers-Robert Wood Johnson Medical School, New-Brunswick, NJ. |

**HONORS & AWARDS**

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| (Finalist) Royal Statistical Society 2023 Statistical Excellence Award for Early-Career Writing  (1st Place) Duke-NUS 2022 PhD Student Research Symposium  Khoo Pre-Doctoral Fellowship  Departmental Honors in Neuroscience  Olive M. Lammert Book Prize | June 2023  Feb 2022  Aug 2020  May 2018  May 2015 |

**ADDITIONAL TRAINING**

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| **NYU School of Professional Studies**, *New York, NY* | Oct 2019 – May 2020 |
| * Completed Advanced Python, Data Visualization for Business, The Art of Data Visualization. | |

**VOLUNTEER EXPERIENCES**

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| **Statistics Without Borders** | Aug 2019 – Feb 2020 |
| *Supervisor: Dr. Janet Raboud*   * Used R to characterize, clean, map, and visualize data collected from free-text fields on the Statistics Without Borders membership survey. | |

**TECHNICAL SKILLS**

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| R, SAS, Python, LaTeX |