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EDUCATION

- 2007 **Ph.D. in Biostatistics**
University of North Carolina at Chapel Hill
Dissertation: “An Internal Pilot Study with Interim Analysis for Gaussian Linear Models” (top 10% graduate selection: Delta Omega)
Supporting program: Epidemiology
- 2002 **B.S.P.H. in Biostatistics**
B.A. in Mathematics
University of North Carolina at Chapel Hill
Highest Distinction (GPA) and Highest Honors (Thesis)
Supported by full four-year out-of-state merit scholarship (Ueltschi Carolina Scholarship)

PROFESSIONAL EXPERIENCE

- 2019- **Associate Program Director and Coordinating Statistician**
Children’s Oncology Group, Statistics and Data Center-Gainesville, FL
- 2017- **Research Associate Professor**
Department of Biostatistics, Colleges of Medicine and Public Health & Health Professions, University of Florida
- 2013- **Senior Statistician** for Acute Lymphoblastic Leukemia (ALL) clinical trials,
Children’s Oncology Group
- 2010-2017 **Assistant Professor/Research Assistant Professor**
Department of Biostatistics, Colleges of Medicine and Public Health & Health Professions, University of Florida
- 2009-2013 **Research Assistant**
VA Rehabilitation Outcomes Research Center REAP, Gainesville, FL
- 2007-2010 **Assistant Professor**
Division of Biostatistics, Department of Epidemiology and Health Policy Research, College of Medicine, University of Florida
- 2004-2007 **Graduate Research Assistant**
University of North Carolina Department of Biostatistics
Development of methods and software for internal pilot studies and design and analysis for Medical Image Display and Analysis Group

- 2002-2004 **Graduate Research Assistant**
University of North Carolina Department of Orthopaedics
Worked with pediatric orthopaedic surgeon Richard C. Henderson, M.D., Ph.D. to research factors predicting bone densities (BMD) and rates of change in bone densities in adolescent cerebral palsy patients
- 1998-2000 **Technical Assistant**
Advanced Software Products Group, Inc., Naples, FL
Primary duties: database management and filtration, product manual writing and editing, PR material creation and dissemination

HONORS

- 2008- Delta Omega Honorary Society in Public Health, Theta Chapter
2006-2007 NIH Pre-Doctoral grant in Environmental Biostatistics, PI: Amy Herring
2002-2005 NIH Pre-Doctoral grant in Cardiovascular Clinical Trials, PI: Lloyd J. Edwards
2002 Delta Omega Honorary Society in Public Health Undergraduate Award
2002- Phi Beta Kappa Society
2002- Pi Mu Epsilon Honorary National Mathematics Society
2000- Golden Key International Honour Society
1998-2002 University of North Carolina Dean's List
1998-2002 University of North Carolina "Honors Carolina" Program

PROFESSIONAL MEMBERSHIPS AND ACTIVITIES

- Safety and Monitoring Committee for SLEPBT study (2022-present)
- The American Society of Hematology
- The American Statistical Association (Florida Chapter)
- International Biometrics Society/Eastern North American Region (ENAR)
- The Society for Clinical Trials
- The International Indian Statistics Association
- The International Society of Paediatric Oncology (SIOP)
- Local Arrangements Chair, 2011 International Biometrics Society/ENAR Conference
- Session Chair (Power and Sample Size), *2011 International Biometrics Society/ENAR*
- Session Moderator, *Society for Clinical Trials 31st Annual Meeting*, 2012
- Session Chair, *Annual Meeting of the FL Chapter of the American Statistical Ass.*, 2014
- Chair/Member, IT Committee, UF Department of Biostatistics (2011-present)
- Chair, Research Finance Committee, UF Department of Biostatistics (2013-present)
- Chair/Member, Student Recruitment Committee, UF Department of Biostatistics (2014-present)
- MPH Concentration Coordinator, UF Department of Biostatistics (2018-2019)
- Chair/Member, Department Development Committee, UF Department of Biostatistics (2014-present)
- Organizer and Chair: IMS Invited Session for 2017 *International Biometrics Society/ENAR*
- Session Chair, *2017 Statistical Inference for Biomedical Big Data Workshop, Gainesville, FL*
- Member, UF Health Cancer Center (2019-Present)

PEER REVIEWED PUBLICATIONS

- Rabin KR, Devidas M, Chen Z, Ji L, **Kairalla JA**,...,Burke MJ, Salzer WL (2023). Outcomes in children, adolescents, and young adults with Down syndrome and acute lymphoblastic leukemia: A report from the Children's Oncology Group. In Press, *Journal of Clinical Oncology*.
- Rodwin RL, DelRocco NJ, Hibbitts E,...,**Kairalla JA**, Kadan-Lottick NS (2023). The assessment of proxy-reported responses as predictors of motor and sensory peripheral neuropathy in children with B-lymphoblastic leukemia. In Press, *Pediatric Blood & Cancer*.
- Dang H, Krailo M, Alonzo TA, Mack, W, **Kairalla, J** (2023). Information Fraction Estimation: Strategies for a Phase 3 Non-Inferiority Maximum Duration Design with Time to Event Outcome. *Pharmaceutical Statistics*, early view. <https://doi.org/10.1002/pst.2327>.
- Hardy KK, **Kairalla JA**, Gioia AR, Weisman HS, Gurung M, Noll RB, Hinds PS, Hibbitts E, Salzer WL, Burke MJ, Winick NJ, and Embry L (2023). Impaired Neurocognitive Functioning 3 Months Following Diagnosis of High-Risk Acute Lymphoblastic Leukemia (ALL): A Report from the Children's Oncology Group (COG). *Pediatric Blood and Cancer*, **70**(7) e30350. <http://doi.org/10.1002/pbc.30350>.
- Faulk KE, **Kairalla JA**, Dreyer ZE, Carroll AJ, Heerema NA, Devidas M, Carroll WL, Raetz EA, Loh ML, Hunger SP, Borowitz M, Wang C, Guest E, Brown PA (2023). Minimal residual disease predicts outcomes in KMT2A -rearranged but not KMT2A-germline infant ALL: report from AALL0631, a Children's Oncology Group study. *Pediatric Blood & Cancer*, **70**(9) e30467. <https://doi.org/10.1002/pbc.30467>.
- Elgarten CW, **Kairalla JA**, Thompson JC, Miller TP, Wang C, Conway S, Loh ML, Raetz EA, Gupta S, Rau RE, Angiolillo A, Rabin KR, Alexander S (2023). SARS-CoV-2 Infections in Patients Enrolled on the Children's Oncology Group Standard Risk B-Cell Acute Lymphoblastic Leukemia Trial, AALL1731. *eJHaem*, <https://doi.org/10.1002/jha2.697>. Early View ahead of issue.
- Robinson BW, **Kairalla JA**, Devidas M, Carroll AJ, Harvey RC, Heerema NA, Willman CL, Ball AR, Woods EC, Ballantyne NC, Urtishak KA, Behm FG, Reaman GH, Hilden JM, Camitta BM, Winick NJ, Pullen J, Carroll WL, Hunger SP, Dreyer ZE, Felix CA (2023). KMT2A partner genes in infant acute lymphoblastic leukemia have prognostic significance and correlate with age, white blood cell count, sex, and central nervous system involvement: a Children's Oncology Group P9407 trial study. *Haematologica*. 10.3324/haematol.2022.281552. Epub ahead of print. PMID: 36861410.
- Schore RJ, Angiolillo AJ, **Kairalla JA**, Devidas M, Rabin KR, Zweidler-McKay PA, Borowitz MJ, Wood BL, Carroll AJ, Heerema NA, Relling MV, Hitzler J, Kaden-Lottick, Maloney KW, Wang C, Carroll WL, Winick NJ, Raetz EA, Loh ML, Hunger S (2023). Outstanding Outcomes with Two Low Intensity Regimens in Children with Low-Risk B-ALL: A Report from COG AALL0932. *Leukemia*, **37**(6), 1375-1378. <https://doi.org/10.1038/s41375-023-01870-8>. PMID: 36966262.
- Gupta S, Dai Y, Chen Z, Winestone LE, ... **Kairalla JA**, ..., Devidas M (2023). Racial and Ethnic Disparities in Childhood and Young Adult Acute Lymphoblastic Leukemia:

secondary analysis of eight Children's Oncology Group Cohort Trials. *The Lancet Haematology*, **10**(2), E129-E141. [https://doi.org/10.1016/S2352-3026\(22\)00371-4](https://doi.org/10.1016/S2352-3026(22)00371-4)

Elgarten CW, Thompson JC, ..., **Kairalla JA**, ..., Miller T (2022). Improving Infectious Adverse Event Reporting for Children and Adolescents Enrolled in Clinical Trials for Acute Lymphoblastic Leukemia: A Report from the Children's Oncology Group. *Pediatric Blood and Cancer*, **69**(11), e29937. <https://doi.org/10.1002/pbc.29937>

Rodwin RL, **Kairalla JA**, Hibbitts E, Devidas M, Whitley MK, Mohrmann CE, Schore RJ, Raetz E, Winick NJ, Hunger SP, Loh ML, Hockenberry MJ, Angiolillo AL, Ness KK, Kadan-Lottick NS (2022). Persistence of chemotherapy-induced peripheral neuropathy despite vincristine reduction in childhood b-acute lymphoblastic leukemia. *Journal of the National Cancer Institute*, **114**(8), 1167-1175. doi: 10.1093/jnci/djac095

Guest EM, **Kairalla JA**, Hilden JM, Dreyer ZE, Carroll AJ, Heerema NA, Wang CY, Devidas M, Gore L, Salzer WL, Winick NJ, Carroll WL, Raetz EA, Borowitz M, Loh ML, Hunger SP, Brown PA (2022). Outstanding outcomes in infants with KMT2A-germline acute lymphoblastic leukemia treated with chemotherapy alone: Results of the Children's Oncology Group AALL0631 trial. *Haematologica*, **107**(5), 1205-1208. PMID: 35172563. doi: 10.3324/haematol.2021.280146

O'Brien MM, Ji L, Shah NN, Rheingold SR, Bhojwani D, Yuan CM, Xu X, Yi JS, Harris AC, Brown PA, Borowitz MJ, Militano O, **Kairalla J**, Devidas M, Raetz EA, Gore L, Loh ML. Phase II Trial of Inotuzumab Ozogamicin in Children and Young Adults with Relapsed/Refractory B-cell Acute Lymphoblastic Leukemia: Children's Oncology Group Protocol AALL1621 (2022). *Journal of Clinical Oncology*, **40**(9), 956-967. PMID: 35007127. doi: 10.1200/JCO.21.01693

Liu Y., **Kairalla J**, Renfro L (2022). Bayesian Adaptive Trial Design for Continuous Biomarkers with Possibly Non-Linear or Non-Monotone Prognostic or Predictive Effects. *Biometrics*, **78**(4), 1441-1453. doi: 10.1111/biom.13550. PMC8858338

Brown PA, **Kairalla JA**, Hilden JM, Dreyer ZE, Carroll AJ, Heerema NA, Wang C, Devidas M, Gore L, Salzer WL, Winick NJ, Carroll WL, Raetz EA, Borowitz MJ, Small D, Loh ML, Hunger SP (2021). FLT3 inhibitor lestaurtinib plus chemotherapy for newly diagnosed KMT2A-rearranged infant acute lymphoblastic leukemia: Children's Oncology Group Trial AALL0631. *Leukemia*, **35**(5), 1279-1290. PMID: 33623141 DOI: 10.1038/s41375-021-01177-6

Jacola LM, Baran J, Noll RB, Willard VW, Hardy KK, Embry L, Hullmann SE, Larsen EC, Winick N, **Kairalla JA** (2021). Adaptive functioning and academic achievement in survivors of childhood acute lymphoblastic leukemia: a report from the Children's Oncology Group. *Pediatric Blood and Cancer*, **68**(4), e28913. PMC8212574

Angiolillo A, Schore RJ, **Kairalla JA**, Devidas M, Rabin KR, Zweidler-McKay P, Borowitz MJ, Wood B, Carroll AJ, Heerema NA, Relling MV, Hitzler J, Lane AR, Maloney KW, Wang C, Bassal M, Carroll WL, Winick NJ, Raetz EA, Loh ML, Hunger SP (2021). Excellent Outcomes with Reduced Frequency of Vincristine and Dexamethasone Pulses in Standard Risk B-Lymphoblastic Leukemia: Results from Children's Oncology Group (COG) AALL0932 (2021). *Journal of Clinical Oncology*, **39**(13), 1437-1447. PMC8274746

- Kimani PK, Todd S, Renfro LA, Glimm E, Khan JN, **Kairalla JA**, Stallard N. Point and interval estimation in two-stage adaptive designs with time to event data and biomarker-driven subpopulation selection (2020). *Statistics in Medicine*, **39**(19), 2568-2586. PMC7785132 DOI: 10.1002/sim.8557.
- Winkler S, **Kairalla J**, Ludwig A, and Fowler C. Designing a Virtual World to Mirror the Real Challenges of Life as an Amputee (2020). *International Journal of Serious Games*, **7**(4), 105 -110. <https://doi.org/10.17083/ijsg.v7i4.352>.
- Salzer W, Burke MJ, Devidas M, Dai Y, Hardy KK, **Kairalla JA**, Gore L, Hilden JM, Larsen E, Rabin KR, Zweidler-McKay PA, Borowitz MJ, Wood B, Heerema NA, Carroll AJ, Winick N, Carroll WL, Raetz EA, Loh ML, Hunger SP (2020). Impact of Intrathecal Triple Therapy Versus Intrathecal Methotrexate on Disease Free Survival for High Risk B-Lymphoblastic Leukemia: Children's Oncology Group Study AALL1131. *Journal of Clinical Oncology*, **38**(23), 2628-2638.
- Renfro LA, Ji L, Piao J, Onar-Thomas A, **Kairalla JA**, and Alonzo TA (2019). Trial Design Challenges and Approaches for Precision Oncology in Rare Tumors: Experiences of the Children's Oncology Group. *Journal of Clinical Oncology-Precision Oncology*, **3**, 1-13. DOI: 10.1200/PO.19.00060.
- Vaz Fragoso CA, Manini TM, **Kairalla JA**, Buford TW, Hsu FC, Gill TM, Kritchevsky SB, McDermott MM, Sanders JL, Cummings SB, Tranah GJ (2019). Mitochondrial DNA variants and pulmonary function in older persons. *Experimental Gerontology*, **115**, 96-103. doi:10.1016/j.exger.2018.11.023
- Sia I, Crary M, **Kairalla JA**, Carnaby G, Sheplak M, Mcculloch TM (2019). Derivation and Measurement Consistency of a Novel Biofluid Dynamics Measure of Deglutitive Bolus-Driving Function - Pharyngeal Swallowing Power. *Neurogastroenterology and Motility*, **31**(1), e13465. PMC6296874
- Manini TM, Buford TW, **Kairalla JA**, McDermott MM, Vas Fragoso CA, Fielding RA, Hsu FC, Johannsen N, Kritchevsky S, Harris TB, Newman AB, Cummings SR, King AC, Pahor M, Santanasto AJ, Tranah GJ (2018). Meta-analysis identifies mitochondrial DNA sequence variants associated with walking speed. *GeroScience*, **40**(5-6), 497-511. <https://doi.org/10.1007/s11357-018-0043-x>
- Sia I, Crary MA, **Kairalla J**, Carnaby GD, Sheplak M, Mcculloch T (2018). Bolus Volume and Viscosity Effects on Pharyngeal Swallowing Power – How Physiological Bolus Accommodation Affects Bolus Dynamics. *Neurogastroenterology and Motility*, **30**(12), e13481. <https://doi.org/10.1111/nmo.13481>
- Buford TW, Manini TM, **Kairalla JA**, McDermott MM, Vaz Fragoso CA, Chen H, Fielding RA, King AC, Newman AB, Tranah GJ (2018). Mitochondrial DNA sequence variants associated with blood pressure among two cohorts of older adults. *Journal of the American Heart Association*, **7**(18), 1-11. <https://doi.org/10.1161/JAHA.118.010009>.
- Winkler SL, **Kairalla JA**, Feng H (2018). Association of Admission Functional Status and Assistive Device Provision for Veterans Post-stroke - A Retrospective Study. *American Journal of Physical Medicine & Rehabilitation*, **97**(12), 897-903. PMID:29985819

- Slayton WB, Schultz KR, **Kairalla JA**, Devidas M, Mi X, Pulsipher MA, Chang BH, Mullighan C, Iacobucci I, Silverman LB, Borowitz MJ, Carroll AJ, Heerema NA, Gastier-Foster JM, Wood BL, Mizrahy SL, Merchant T, Brown VL, Sieger L, Siegel M, Raetz EA, Winick NJ, Loh ML, Carroll WL, Hunger SP (2018). Dasatinib plus intensive chemotherapy in children, adolescents and young adults with Philadelphia chromosome positive acute lymphoblastic leukemia: Results of Children's Oncology Group trial AALL0622. *Journal of Clinical Oncology*, **36**(22), 2306-2314. PMID: 29812996
- Winkler SL, **Kairalla JA**, Cooper R., Hall A, Schlesinger M, Krueger A, Ludwig, A. (2018). Comparison of functional benefits of self-management training for amputees under virtual world and e-learning conditions. *Journal of Alternative Medicine Research*, **10**(1), 65-72.
- Cooper R, Winkler SL, **Kairalla J**, Hall A, Schlesinger M, Krueger A, and Ludwig A. (2018). Expanded Sense of Possibilities: Qualitative Findings from a Virtual Self-Management Training For Amputees. *Journal of Alternative Medicine Research*, **10**(1), 73-80.
- Arthur PB, Gitlin LN, **Kairalla JA**, Mann WC (2017). Relationship between the Number of Behavioral Symptoms and Caregiver Distress: What is the Tipping Point? *International Psychogeriatrics*, **30**(8), 1099-1107. doi:10.1017/S104161021700237X
- Hardy K, Embry L, **Kairalla J**, Helian S, Devidas M, Armstrong D, Hunger S, Carroll W, Larsen E, Raetz E, Loh M, Noll R, Winick N (2017). Neurocognitive functioning of children treated for high risk B-acute lymphoblastic leukemia (HRALL) randomized to Capizzi (CMTX) versus high dose methotrexate (HDMTX): A report from the Children's Oncology Group (COG). *Journal of Clinical Oncology*, **35**(23), 2700-2707. PMC5549456
- Winkler S.L., Cooper R., Kraiger K., Ludwig A., Krueger A., Gaunaurd I., Fisher A., **Kairalla J.**, Elliott S., Wilson S., and Esquenazi A. (2017). Self-management intervention for amputees in a virtual world environment. *Journal of Alternative Medicine Research*, **9**(2), 141-145.
- Kairalla J.A.**, Hubbard Winkler S.L., Feng H. (2016). Understanding the Provision of Assistive Mobility and Daily Living Devices and Service Delivery to Veterans After Stroke. *American Journal of Occupational Therapy*, **70**(1), 7001290020p1-7001290020p10.
- Swami S., Cohen R.A., **Kairalla J.A.**, Manini T.M. (2016). Anticholinergic Drug Use and Risk of Cognitive Performance in Older Adults with Questionable Cognitive Impairment: A Cross-Sectional Analysis. *Drugs and Aging*, **33**(11), 809-818. PMID: 27638818
- Rodriguez V., **Kairalla J.A.**, Salzer W., Raetz E., Loh M.L., Carroll A., Heerema N.A., Wood B., Borowitz M.J., Burke M., Asselin B.L., Devidas M., Winick N.W., Carroll W.L., Hunger S.P., Dreyer Z.E. (2016). A Pilot Study of Intensified PEG-Asparaginase in High Risk Acute Lymphoblastic Leukemia: Children's Oncology Group Study AALL08P1 *Journal of Pediatric Hematology-Oncology*, **38**(6), 409-417. PMID:27299599 DOI: 10.1097/MPH.0000000000000589.
- Kairalla J.A.**, Coffey C.S., Thomann M.A., Shorr R.I., Muller K.E. (2015). Adaptive Designs for Comparative Effectiveness Research Trials. *Clinical Research and Regulatory Affairs*, **32**(1), 36-44. doi10.3109/10601333.2014.977490.

- Cara-Fuentes G., **Kairalla J.A.**, Ishimoto T., Rivard C., Johnson R.J., and Garin E.H. (2014). Rituximab in Idiopathic Nephrotic Syndrome: Does it Make Sense? *Pediatric Nephrology*, **29**,1313-1319. doi10.1007/s00467-013-2534-4. PMC3856183
- Kneipp S.M., **Kairalla J.A.**, and Sheely A.L. (2013). A randomized controlled trial to improve health among women receiving welfare in the U.S.: the relationship between employment outcomes and the economic recession. *Social Science & Medicine*, **80**, 130-140. PMC3577993 (free PMC article <http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3577993/>)
- Kairalla J.A.**, Coffey C.S., Thomann M.A., and Muller K.E. (2012). Adaptive Trial Designs: A Review of Barriers and Opportunities. *Trials*, **13**:145. DOI: 10.1186/1745-6215-13-145. PMC3519822 (open access <http://www.trialsjournal.com/content/pdf/1745-6215-13-145.pdf>)
- *BioMed Central 'Highly accessed' article
- Abdulnour H.A., Williams J.L., **Kairalla J.A.**, and Garin, E.H. (2012). Does hydronephrosis predict the presence of severe vesicoureteral reflux? *European Journal of Pediatrics*, **171**, 1605-1610. PMID:22735979
- Mirza A., Mo J., Holt J., **Kairalla J.A.**, Heft M., Ding M., Ahn A. (2012). Is there a relationship between throbbing pain and arterial pulsations? *Journal of Neuroscience*, **32**, 7572-7576. PMC3376713
- Cowan L.J., Stechmiller J.K., Rowe M., and **Kairalla J.A.** (2012). Enhancing Braden Pressure Ulcer Risk Assessment in acutely ill adult veterans. *Wound Repair and Regeneration*, **20**, 137-148. PMID:22304370
- Bendixen, R.M., Elder, J.H., Donaldson, S., **Kairalla, J.A.**, Valcante, G., Ferdig, R.E. (2011). Effects of a Father-Based In-Home Intervention on Perceived Stress and Family Dynamics in Parents of Children With Autism. *American Journal of Occupational Therapy*, **65**, 679–687. PMC3252214
- Kneipp S.M., **Kairalla J.A.**, Lutz B.J., Pereira D., Hall A.G., Flocks J., Beeber L., Schwartz T. (2011). Public Health Nursing Case Management for Women Receiving Temporary Assistance for Needy Families: A Randomized Controlled Trial Using Community-Based Participatory Research. *American Journal of Public Health*, **101(9)**, 1759-1768. PMC3154225
- Staras S.A.S., **Kairalla J.A.**, Hou W., Sappenfield W., Thompson D., Ranka D., Shenkman E.A. (2011) Association between perinatal medical expenses and a waiver to increase Florida Healthy Start services within Florida Medicaid programs: 1998 to 2006. *Maternal and Child Health Journal*, **16**, 1567-1575. PMC3505550 (open access <http://www.springerlink.com/content/kg3131vt21ng65k7/fulltext.pdf>)
- Elder, J.H., Donaldson, S.O., **Kairalla, J.**, Valcante, G., Bendixen, R., Ferdig, R., Self, E., Walker, J., Palau, C., and Serrano, M. (2011). In-Home Training for Fathers of Children with Autism: A Follow Up Study and Evaluation of Four Individual Training Components. *Journal of Child and Family Studies*, **20**: 263-271. (open access <http://www.springerlink.com/content/n701583726446610/fulltext.pdf>) PMC3087101
- Ahn A.H. and **Kairalla J.A.** (2011). Mirror, mirror on the wall: what effectiveness research shows us about headache care. *Pain* **152**: 1695-1696. PMID:21435787

- Kairalla J.A.**, Muller K.E., and Coffey C.S. (2010). Combining an Internal Pilot with an Interim Analysis for Single Degree of Freedom Tests. *Communications in Statistics: Theory and Methods*. **39(20)**: 3717-3738. (free PMC article: <http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2965034/>) PMC2965034
- Kneipp, S.M., **Kairalla, J.A.**, Stacciarini, J., Pereira, D., and Miller, M.D. (2010). Comparison of Depressive Symptom Severity in Low-income Women. *Nursing Research*, **59(6)**: 380-388. PMC3057908
- Rowe M.A., **Kairalla J.A.**, and McCrae, C.S. (2010). Sleep in Dementia Caregivers and the Effect of a Nighttime Monitoring System. *Journal of Nursing Scholarship*, 42(3): 338-347. PMID:20738745
- Rowe M., Ahn H., Pe Benito A., Stone H., Wilson A., and **Kairalla J.** (2010). Injuries and unattended home exits in persons with dementia: a 12-month prospective study. *American Journal of Alzheimer's Disease & Other Dementias*, **25(1)**: 27-31. PMC2821464
- Kneipp S.M., **Kairalla J.A.**, Stacciarini J.M., Pereira D. (2009) The Beck Depression Inventory II Factor Structure Among Low-Income Women. *Nursing Research*, **58(6)**: 400-409. PMID:19918151
- Kairalla J.A.**, Coffey C.S., and Muller K.E. (2008). GLUMIP 2.0: SAS/IML® software for planning internal pilots. *Journal of Statistical Software*, **28(7)**: 1-32. (open access: <http://www.jstatsoft.org/v28/i07>)
- Coffey C.S. and **Kairalla J.A.** (2008). Adaptive Clinical Trials: Progress and Challenges. *Drugs in R&D* **9(4)**: 229-242. PMID:18588354
- Coffey C.S., **Kairalla J.A.**, and Muller K.E. (2007). Practical methods for bounding type I error rate with an internal pilot design. *Communications in Statistics: Theory and Methods* **36(11)**: 2143-2158. DOI: 10.1080/03610920601143634
- *Winner of 2008 Science Unbound Foundation Award for Statistics.
- Henderson R.C., **Kairalla J.A.**, Barrington J.W., Abbas A., Stevenson R.D. (2005). Longitudinal changes in bone density in children and adolescents with moderate to severe cerebral palsy. *The Journal of Pediatrics* **146(6)**:769-775. PMID:15973316
- Henderson R.C., **Kairalla J.**, Abbas A., Stevenson R.D. (2004). Predicting low bone density in children and young adults with quadriplegic cerebral palsy. *Developmental Medicine and Child Neurology* **46(6)**:416-419. PMID:15174534
- * Rated #6 in the "2004 Top Ten Articles on Developmental Disabilities" by the American Academy for Cerebral Palsy and Developmental Medicine

BOOK CHAPTERS

- Kairalla JA**, Zahigian R, Wu SS (2022). Interim Analysis in Clinical Trials. In: Piantadosi S, Meinert CL (eds) Principles and Practice of Clinical Trials. Springer, Cham. https://doi.org/10.1007/978-3-319-52677-5_84-1.
- Winkler SL, Kairalla JA, Cooper R., Hall A, Schlesinger M, Krueger A, Ludwig A. (2017). Comparison of functional benefits of self-management training for amputees under virtual world and e-learning conditions. In W Powell, A Rizzo, PM Sharkey and J Merrick (Eds.),

Rehabilitation: Innovations and Challenges in the Use of Virtual Reality Technologies (pp. 105-120). NY: Nova Science Publishers.

Cooper, R, Winkler, SL, Kairalla, J, Hall, A, Schlesinger, M, Krueger, A and Ludwig, A. (2017). Expanded sense of possibilities: qualitative findings from a virtual self-management training for amputees. In W Powell, A Rizzo, PM Sharkey and J Merrick (Eds.), *Rehabilitation: Innovations and Challenges in the Use of Virtual Reality Technologies* (pp. 121-134). NY: Nova Science Publishers.

Winkler, SL, Cooper, R., Kraiger, K, Ludwig, A., Kreuger, A, Gaunaud, I, Fisher, A. **Kairalla, J**, Elliott, S, Wilson, S, Esquenazi, A. (2016). Self-management intervention for amputees in a virtual world environment. Recent Advances on Using Virtual Reality Technology for Rehabilitation, PM Sharkey and J Merrick (Eds.). In Merrick, J (ed.) *Disability Studies*. NY: Nova Science Publishers.

OTHER PUBLICATIONS

Balsamo LM, **Kairalla JA**, Hibbitts E, Rodwin RL, Devidas M, Dreyzin A, Winick NJ, Carroll WL, Hunger S, Raetz EA, Schore RJ, Loh ML, Ness KK, Angiolillo AL, Kadan-Lottick KS (2023). Physical and emotional quality of life in children with B-acute lymphoblastic leukemia randomized to every 4- vs. 12-week vincristine/dexamethasone during maintenance: Children's Oncology Group AALL0932. *Journal of Clinical Oncology* **41**(16S), 10025-10025. (Refereed abstract)

Thompson J, Elgarten C, Withycombe J, **Kairalla J**, Wang C, Zupanec S, Gupta S, Rau R, Rabin K, Loh M, Raetz E, Alexander S, Miller T (2023). Risk of Sepsis During Blinatumomab Administration: A Report from the Children's Oncology Group. *Pediatric Blood & Cancer*, **70**(S3), S10. (Refereed abstract)

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IN REVIEW OR REVISION

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INVITED PRESENTATIONS

Kairalla J.A., Zahigian R.S., and Wu, S.S (May 2018). Novel Response Adaptive Allocation in Randomized Factorial Designs: A Case Study. *Annual Meeting of the International Indian Statistical Association*, (Gainesville, FL).

Kairalla J.A., Zahigian R.S., and Wu, S.S (March 2018). Novel Response Adaptive Allocations in Factorial Designs: A Case Study. *Annual Meeting of the International Biometrics Society: Eastern North America Region*, (Atlanta, GA).

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Prognostic Impact of t(1;19)/TCF3::PBX1 in Pediatric B-Cell Lymphoblastic Leukemia (B-ALL) Patients Treated on Contemporary Children's Oncology Group (COG) Standard Risk Protocols (to be presented October 2023). *The 55th Congress of the International Society of Paediatric Oncology*, Ottawa, Canada.

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Faulk K, **Kairalla J**, Devidas M, Hibbitts E, Carroll A, ..., Brown P, Guest E. Pegaspargase Levels in Infants with Acute Lymphoblastic Leukemia: A Report from the Children's Oncology Group Trial AALL15P1 (October 2022). *The 54th Congress of the International Society of Paediatric Oncology, Barcelona, Spain*.

Gupta S, Dai Y, Chen Z, Winestone LE, ... **Kairalla JA**, ..., Devidas M. Racial and Ethnic Outcome Disparities among Patients with Acute Lymphoblastic Leukemia are not fully Attenuated by Disease Prognosticators or Socioeconomic Status: A COG Study (October 2022). *The 54th Congress of the International Society of Paediatric Oncology, Barcelona, Spain*.

Tran TH, Reshmi S, Kirsch IR, **Kairalla JA**, Tasian SK, Schultz KR, Raetz EA, Shago M, Carroll AJ, Devidas M, Hunger S, Loh ML, Silverman LB. Minimal residual disease comparison between Ig/TCR PCR versus NGS assays in children with Philadelphia chromosome-positive acute lymphoblastic leukemia: A report from the COG AALL1631 study (June 2022). *American Society of Clinical Oncology Annual Meeting, Chicago, IL*.

Li AM, Rabin KR, **Kairalla J**, Wang C, Devidas M, Militano O, Okada M, Hitzler JK, Angiolillo AL, Raetz EA, Loh ML, Gupta S, Rau R. Blinatumomab Associated Seizure Risk in Patients with Down Syndrome and B-Lymphoblastic Leukemia. (May 2022). *American Society of Pediatric Hematology/Oncology, Pittsburgh, PA*.

Faulk K, **Kairalla J**, Devidas M, Hibbitts E, Carroll A, Heerema N, Kubaney H, August A, Pauly M, Wechsler D, Miles R, Reid J, Druley T, Kihei C, Gore L, Raetz E, Hunger S, Loh M, Brown P, Guest E. Pegaspargase Levels in Infants with ALL: A Report from the Children's Oncology Group Trial AALL15P1 (May 2022). *American Society of Pediatric Hematology/Oncology, Pittsburgh, PA*.

Delrocco N, Loh ML, Borowitz M, Rabin KR, Zweidler-McKay PA, Maloney KW, Mattano LA, Larsen EC, Angiolillo AL, Schore RJ, Burke MJ...**Kairalla JA**. Comparison of Current and Enhanced Risk Stratification of 21,199 Children, Adolescents, and Young Adults with Acute Lymphoblastic Leukemia Using Objective Risk Categorization Criteria: A Children's Oncology Group Report. (December 2021). *American Society for Hematology Annual Meeting, Atlanta, GA*.

* Winner: American Society of Hematology Abstract Achievement Award

Li AM, Rabin KR, **Kairalla J**, Wang C, Devidas M, Militano O, Okada M, Hitzler JK, Angiolillo AL, Raetz EA, Loh ML. Blinatumomab Associated Seizure Risk in Patients with Down Syndrome and B-Lymphoblastic Leukemia: An Interim Report from Children's Oncology Group (COG) Study AALL1731. (December 2021). *American Society for Hematology Annual Meeting, Atlanta, GA*.

Rodwin R., **Kairalla J**,...,Kadan-Lottick N. Chemotherapy-induced Peripheral Neuropathy Persists Despite Reduction of Vincristine Frequency in Children with B-acute Lymphoblastic Leukemia: a Report from Children's Oncology Group aall0932. (October 2021). *The 53rd Congress of the International Society of Paediatric Oncology*.

Guest E, **Kairalla J**, Devidas M,..., Brown P. Azacitidine as Epigenetic Priming for Chemotherapy is Safe in Infants with KMT2A-Rearranged ALL. (April 2021). *American Society of Pediatric Hematology/Oncology, Virtual*.

DelRocco N, Loh ML,..., **Kairalla JA**. An Enhanced Prognostic Index for Children, Adolescents, and Young Adults with Acute Lymphoblastic Leukemia (ALL): A Children's Oncology Group (COG) Report (December 2020). ..., **Kairalla JA**. Enhanced Risk Stratification of 21,178 Children, Adolescents, and Young Adults with Acute Lymphoblastic Leukemia (ALL) Incorporating White Blood Count (WBC), Age, and Minimal Residual

Disease (MRD) at Day 8 and 29 As Continuous Variables: A Children's Oncology Group (COG) Report (April 2021). *Annual Meeting of the Florida Chapter of the American Statistical Association*, Virtual.

*Winner: FL ASA Best Poster Competition

Loh ML, DelRocco N, ..., **Kairalla JA**. Enhanced Risk Stratification of 21,178 Children, Adolescents, and Young Adults with Acute Lymphoblastic Leukemia (ALL) Incorporating White Blood Count (WBC), Age, and Minimal Residual Disease (MRD) at Day 8 and 29 As Continuous Variables: A Children's Oncology Group (COG) Report (December 2020). *American Society for Hematology Annual Meeting*, Virtual.

Schore RJ, Angiolillo AJ, **Kairalla JA**, Devidas M, Rabin KR, Zweidler-McKay PA, Borowitz MJ, Wood BL, Carroll AJ, Heerema NA, Relling MV, Hitzler J, Lane AR, Maloney KW, Wang C, Carroll WL, Winick NJ, Raetz EA, Loh ML, Hunger S. Outcomes with reduced intensity therapy in a low-risk subset of children with National Cancer Institute (NCI) standard-risk (SR) B-lymphoblastic leukemia (B-ALL): A report from Children's Oncology Group (COG) AALL0932 (June 2020). *American Society of Clinical Oncology Annual Meeting*, Chicago, IL.

Angiolillo A, Schore RJ, **Kairalla J**, Devidas M, Rabin KR, Zweidler-McKay PA, Borowitz MJ, Wood BL, Carroll AJ, Heerema NA, Relling MV, Lane A, Maloney K, Wang C, Carroll W, Winick N, Raetz E, Loh M, Hunger S. Reduced Frequency of Maintenance Pulses in Standard-Risk B Acute Lymphoblastic Leukemia AALL0932 (May 2020). *American Society of Pediatric Hematology/Oncology*, Fort Worth, TX.

Hardy KK, Gioia AR, **Kairalla JA**, Schembri A, Hibbits E, Winick N, Noll RB, Hinds PS, Embry L. Impaired Neurocognitive Functioning Three Months Following Diagnosis of High-Risk Acute Lymphoblastic Leukemia (ALL): A Report from the Children's Oncology Group (COG) (February 2020). *48th Annual Meeting of the International Neuropsychological Society*, Denver, CO.

Brown PA, **Kairalla J**, Hilden JM, Dreyer ZW, Carroll AJ, Heerema NA, Wang C, Devidas M, Carroll WL, Raetz EA, Loh ML, Hunger SP, Borowitz MJ, Small D (2019). FLT3 Inhibitor Correlative Laboratory Assays Impact Outcomes in KMT2A-Rearranged Infant Acute Lymphoblastic Leukemia (ALL) Patients Treated with Lestaurtinib: AALL0631, a Children's Oncology Group Study (December 2019). *American Society for Hematology Annual Meeting*, San Diego, CA.

Angiolillo A, Schore RJ, **Kairalla J**, Devidas M, Rabin KR, Zweidler-McKay PA, Borowitz MJ, Wood BL, Carroll AJ, Heerema NA, Relling MV. Excellent Outcomes with Reduced Frequency of Vincristine and Dexamethasone Pulses in Children with National Cancer Institute (NCI) Standard-Risk B Acute Lymphoblastic Leukemia (SR B-ALL): A Report from Children's Oncology Group (COG) Study AALL0932 (December 2019). *American Society for Hematology Annual Meeting*, San Diego, CA.

Kimani P, Todd S, Renfro L, Glimm E, Khan J, **Kairalla J**, Stallard N. Two-stage adaptive enrichment designs with time to event data: Point and interval estimation (October 2019). *The 5th International Clinical Trials Methodology Conference*, Brighton, UK.

Brown P, **Kairalla J**, Hilden J, Dreyer Z, Carroll A, Heerema NA, Devidas M, Carroll W, Raetz E, Loh M, Hunger S, Borowitz M. Minimal Residual Disease (MRD) Predicts Outcomes in KMT2A-Rearranged But Not KMT2A-Wild Type Infant Acute Lymphoblastic Leukemia

(ALL): AALL0631, A Children's Oncology Group Study. Minimal Residual Disease (MRD) Predicts Outcomes in KMT2A-Rearranged But Not KMT2A-Wild Type Infant Acute Lymphoblastic Leukemia (ALL): AALL0631, A Children's Oncology Group Study. (October 2019). *The 51th Congress of the International Society of Paediatric Oncology*, Lyon, France.

Zahigian R, **Kairalla J**, Wu S. Novel Response Adaptive Allocations in Factorial Designs: A Case Study (December 2018). *The 74th Annual Deming Conference on Applied Statistics*, Atlantic City, NJ.

*Winner of the Biopharm-Deming Student Scholar Award

Hardy K, Gioia A, **Kairalla J**, Winick N, Noll R, Patel S, Sands S, Embry L. Executive Functioning in Children and Adolescents Treated for High-Risk Acute Lymphoblastic Leukemia (HR-ALL): A Report from the Children's Oncology Group (COG) (November 2018). *The 50th Congress of the International Society of Paediatric Oncology*, Kyoto, Japan.

Slayton W, Schultz K, **Kairalla J**, Devidas M, Pulsipher M, Silverman L, Borowitz M, Carroll A, Heerema N, Gastier-Foster J, Mizrahy S. (October 2017). Dasatinib Maintains Outstanding 5-Year Survival Outcomes in Children with PH plus ALL, but does not Prevent CNS Relapses: Children's Oncology Group (COG) AALL0622 Trial. *The 49th Congress of the International Society of Paediatric Oncology*, Washington, DC.

Arthur PB, **Kairalla JA**, Mann WC, Gitlin LN (March 2017). Digging in: Which Dementia Symptoms are the Most Burdensome to Caregivers? *2017 AOTA Annual Conference & Centennial Celebration*, Philadelphia, PA.

Baran JN, Noll RB, Jacola LM, Willard VW, Hardy KK, Embry L, **Kairalla JA**, et al. (December 2016). General Adaptive Functioning in Survivors of Childhood Acute Lymphoblastic Leukemia. *American Society for Hematology Annual Meeting*, San Diego, CA.

Swami S, Cohen R, **Kairalla J**, and Manini T (November 2016). Anticholinergic Drug Use and Risk of Dementia in Older Adults with Questionable Cognitive Impairment. *2016 Gerontological Society of America Annual Scientific Meeting*, New Orleans, LA.

Slayton WK, Schultz K, Chang B, **Kairalla J**, Devidas M, et al. (October 2016). BCR/ABL1 Point Mutations Are Uncommon In Children With PH+ Acute Lymphoblastic Leukemia Receiving Dasatinib Plus Multiagent Chemotherapy: A Report From Children's Oncology Group Trial AALL0622. *The 48th Congress of the International Society of Paediatric Oncology*, Dublin, Ireland.

Brown P., **Kairalla J.**, Wang C., Dreyer Z., Salzer W., Sorenson M., Borowitz M., Carroll A., Heerema N., Rao K., Gore L., Devidas M. et al. (October 2016). Addition of FLT3 inhibitor lestaurtinib to post-induction chemotherapy does not improve outcomes in MLL-rearranged infant acute lymphoblastic leukemia (ALL): AALL0631, a Children's Oncology Group study. *The 48th Congress of the International Society of Paediatric Oncology*, Dublin, Ireland.

Winkler SL, **Kairalla JA**, Cooper R, Gaunaud I, Schlesinger M, Krueger A, Ludwig A (September 2016). Comparison of functional benefits of self-management training for amputees under virtual world and e-learning conditions. *11th International Conference on Disability, Virtual Reality, and Associated Technologies*, Los Angeles, CA.

Roth, A.J., Rowe, M.A., **Kairalla, J.A.**, Robinson, M.E., & McCrae, C.S. (June 2016). Towards a model of sleep disturbances in caregivers of persons with dementia: Characterizing

intraindividual variability in caregivers' sleep compared to non-caregivers. *30th Annual Meeting of the Associated Professional Sleep Societies (APSS)*, Denver, CO.

Kairalla J.A., Lu X., Zeng H., Wu S.S. (February 2016). Graphical Approach to Multiple Test Procedures in 2×2 Factorial Designs. *Annual Meeting of the Florida Chapter of the American Statistical Association*, (Tallahassee, FL).

Sia, I. McCulloch T., Sheplak M., **Kairalla J.**, Carnaby G., Crary M. (February 2016). Pharyngeal Swallowing Power: Evaluating a Novel Measure of Deglutitive Bolus-Driving Function and its Relationship with Upper Esophageal Sphincter Function. *Dysphagia Research Society 2016 Annual Meeting* (Tuscon, AZ).

Winick N.J., Embry L.M., Hardy K.K., **Kairalla J.A.**, Devidas M., Armstrong D., Hunger S., Carroll W.L., Larsen E., Raetz E.A., Loh M.L., Noll R. (June 2015). Neurocognitive function of children treated for high-risk B-acute lymphoblastic leukemia (HR-ALL) randomized to Capizzi (CMTX) versus high-dose methotrexate (HDMTX): A report from the Children's Oncology Group (COG). Podium presentation at the *2015 American Society of Clinical Oncology Annual Meeting* (Chicago, IL).

Slayton W.B., **Kairalla J.A.**, Schultz K.R., Devidas M., Helian S., Pulsipher M., Chang B.H., Carroll W.L., Borowitz M.J., Brown V.I., Winick N.J., Carroll A.J., Heerema N.A., Gastier-Foster J.M., Wood B.L., Mizrahy S., Hunger S (May 2015). Outcomes of Dasatinib Plus Intensive Chemotherapy or Stem Cell Transplant (SCT) for Philadelphia Chromosome Positive Acute Lymphoblastic Leukemia (Ph+ ALL) on Children's Oncology Group AALL0622. Podium presentation at the *2015 American Society of Clinical Oncology Annual Meeting* (Chicago, IL).

Manini T, Marta C, Harris T, Swami S, Murphy R., Newman A., Pahor M., Satterfield S., Schwartz A., Simonsick E., **Kairalla J.**, Mazumder D., Lele A., Patel M. and Joseph G. (April 2015) Comparing and contrasting low appendicular lean mass criteria for definitions of sarcopenia. Symposium podium presentation at the *International Conference on Frailty & Sarcopenia* (Boston, MA).

Winkler S.L., Cooper R., Kraiger K., Ludwig A., Krueger, Gaunaud I., Fisher A., **Kairalla J.**, Elliott S., Wilson S., Esquenazi A. (September 2014) Self-management intervention for amputees in a virtual world environment. *10th International Conference on Disability, Virtual Reality, and Associated Technologies* (Sweden).

Kairalla J.A., Coffey C.S., Thomann M.A., Shorr R.I., Muller K.E. (July 2014). Adaptive Designs for Comparative Effectiveness Research Trials. *International Biometric Conference (IBC)*, (Florence, Italy).

Rowe M., Farias J., Brewster G., McCrae C., Roth A., and **Kairalla J.** (June 2014) Is the Sleep Deficit in Dementia Caregivers due to Undiagnosed Sleep Apnea? *Sleep 2014* (Minneapolis, MN).

Jordan M.M., Holt J., Kang D., **Kairalla J.**, King C., Fillingim R., Ding M., Ahn A. (June 2013). Psychophysical properties of throbbing pain in a human experimental model of pain. *International Headache Conference* (Boston, MA).

Osmani T.M., Freytes M., Young M.E., Castro J.G., **Kairalla J.A.**, Ahern J.K. (February 2013). Communication, Family Functioning, and Veteran's Post-deployment Reintegration: A Pilot Study. *Florida Undergraduate Research Conference 2013* (Gainesville, FL).

Kneipp S.M., **Kairalla J.A.**, Sheely A.L (October 2012). How recession-proof are PHN interventions? Recession exposure, health, and employment outcome findings from a recent RCT. *Annual Meeting of the American Public Health Association* (San Francisco, CA).

Ahn A.H., Holt J, Jordan M.J., Mo J., Ding M., **Kairalla J.A.**, Fillingim R.B., King C.D. (October 2012). Psychophysical properties of a human experimental model of the throbbing quality of pain. *Neuroscience 2012* (New Orleans, LA).

Kairalla J.A., Coffey C.S., Thomann M.A., Muller K.E. (August 2012). Adaptive Designs for Comparative Effectiveness Trials. *Annual Joint Statistical Meetings*, (San Diego, CA).

Vogel B., **Kairalla J.**, Wang X., Litt E., Castro J., Wilson L., Cowper-Ripley D., and Reker D (July 2012). Predicting Potential Demand for OEF/OIF Rehabilitation Services in the VHA. *2012 HSR&D/QUERI National Meeting*, (National Harbor, MD).

Litt E.R., Vogel W.B., **Kairalla J.**, Cowper Ripley D.C., Wilson L.K., Castro J.G., Wang X. (July 2012). Using GIS Tools in Prioritizing Rehabilitation Service Sites for OEF/OIF Veterans. *VA HSR&D / QUERI National Meeting* (Washington, DC).

Feng H., Winkler S.H., **Kairalla J.A.**, Ripley D.C., Hoenig H. (June 2012). The Provision Prediction of Assistive Technology Devices in Post-Stroke Veterans by Decision Modeling. *Academy Health Annual Research Meeting*, (Orlando, FL).

Kairalla J.A., Coffey C.S., Muller K.E., Thomann M.A., Shorr R.I., Torner J.C., Chrischilles E.A. (May 2012). Adaptive designs for clinical comparative effectiveness research: Are we ready? *The Society for Clinical Trials 33rd Annual Meeting*, (Miami, FL).

Kairalla J.A., Thomann M.A., Coffey C.S. Shorr R.I., Muller K.E. (April 2012). Two-Stage Designs for Adaptive Comparative Effectiveness Trials. *Annual Meeting of the International Biometrics Society: Eastern North America Region*, (Washington, DC).

Ahn A.H., Mirza A., Mo J., Holt J, **Kairalla J.**, Heft M, Ding M (March 2012). Arterial Pulsations Are Unrelated to the Throbbing Quality of Acute Pain. *65th American Academy of Neurology Annual Meeting* (San Diego, CA).

Ahn A.H., Mirza A.F., Mo J., Heft M.A., Ding M., **Kairalla J.A.** (November 2011). The throbbing percept of acute pain does not encode arterial pulsations. *Neuroscience 2011* (Washington, DC).

Kneipp, S.M., **Kairalla, J.A.**, Lutz, B., Pereira, D., Hall, A., Flocks, J., Beeber, L., and Schwartz, T. (April 2011) Key Findings from a "Ground Up" Approach: A Community-Based Participatory Research (CBPR)-Designed Intervention to Improve the Health of Women in Welfare Transition Programs. *2011 From Disparities Research to Disparities Interventions: Lessons Learned and Opportunities for the Future of Behavioral Health Services* (Arlington, VA).

Kairalla J.A., Muller K.E., and Coffey C.S. (March 2011). Internal pilot study with interim analysis for multiple degree of freedom hypothesis tests. *Annual Meeting of the International Biometrics Society: Eastern North America Region*, (Miami, FL).

Vogel, W.B., **Kairalla, J.A.**, Cowper-Ripley, D., Litt, E. (February 2011). VHA Enrollment Rates across the Rural-Urban Continuum. *28th VA Health Services Research and Development Service (HSR&D) National Meeting*, (National Harbor, MD).

Elder, J.H., Donaldson, S., **Kairalla, J.**, Valcante, G., Bendixen, R., Ferdig, R., Self, E., Walker, J., Palau, C., and Serrano, M. (September 2010). Perceived Stress and Family Dynamics in Fathers and Mothers of Children with Autism. National Institute of Nursing Research 25th Anniversary Scientific Symposium, (Bethesda, MD).

Elder, J.H., Donaldson, S., **Kairalla, J.**, Bendixen, R., Self, E. (September 2010). Perceived Stress and Family Dynamics in Parents of Children with Autism. 2010 State of the Science Congress on Nursing Research, (Washington, DC).

Kairalla, J.A., Coffey, C.S., and Muller, K.E. (August 2010). Achieving the Benefits of Both an Internal Pilot and Interim Analysis in Small Samples. *Annual Joint Statistical Meetings*, (Vancouver, BC).

Kairalla, J.A., Coffey, C.S., and Muller, K.E. (May 2010). Achieving the Benefits of Both an Internal Pilot and Interim Analysis in Large and Small Samples. *The Society for Clinical Trials 31st Annual Meeting*, (Baltimore, MD).

Elder, J.H., Donaldson, S., **Kairalla, J.**, Valcante, G., and Ferdig, R. (November 2009). Training Fathers of Children with Autism. *American Academy of Nursing 36th Annual Meeting and Conference*. (Atlanta, GA).

Kairalla J.A., Coffey C.S., and Muller K.E. (August 2009). Achieving the Benefits of both an Internal Pilot and Interim Analysis while Controlling Type I Errors. *Annual Joint Statistical Meetings*, (Washington, DC).

Elder, J.H., Donaldson, S., **Kairalla, J.**, Bendixen, R., Valcante, G., Ferdig, R., Self, E., Walker, J., Palau, C., Serrano, M., and Galante, T. (May 2009). Comparisons of Mother-Child and Father-Child Interactions During In-Home Play Sessions for Children with Autism. *The Eighth Annual International Meeting for Autism Research*, (Chicago, IL).

Donaldson, S., Elder, J.H., **Kairalla, J.**, Valcante, G., Bendixen, R., Ferdig, R., Self, E., Mutch, P.J., Murphy, T., Walker, J., Palau, C., Serrano, M., and Galante, T. (May 2009). Differences in Perceptions of Mothers and Fathers of Children with Autism in Regards to Stress, Family Cohesion, and Adaptability. *The Eighth Annual International Meeting for Autism Research*, (Chicago, IL).

Gensiejewski, H., Taber, K., Taber, R., Sigsby, L.M., and **Kairalla J.A.** (March 2009). Perceptions perioperative nurses' caring behaviors: Part II. *56th Annual Association of Perioperative Registered Nurses (AORN) Congress*, (Chicago, IL).

Rowe M., **Kairalla J.**, Kelly A., Pe Benito A. (November 2008). Perception of poor sleep in caregivers: Is high night-to-night variability a key? *61st Annual Scientific Meeting, Gerontological Society of America*, (National Harbor, MD).

Kairalla J.A., Coffey C.S., and Muller K.E. (August 2008). GLUMIP 2.0: SAS/IML software for planning internal pilots. *Annual Joint Statistical Meetings*, (Denver, CO).

Kairalla J.A., Muller K.E., and Coffey C.S. (March 2008). Internal pilot with interim analysis for single degree of freedom hypothesis tests. *Annual Meeting of the International Biometrics Society: Eastern North America Region*, (Crystal City, VA).

Galante, L., Sigsby, LM, & **Kairalla, J.** (March 2008). Perceptions of perioperative nurses' caring behaviors. *55th Annual Association of Perioperative Registered Nurses (AORN) Congress*, (Anaheim, CA).

Muller K.E., Coffey C.S., **Kairalla J.A.**, and Johnson J.L. (March 2008). GLMIP 1.0: SAS/IML software for planning repeated measures internal pilots. *Annual Meeting of the International Biometrics Society: Eastern North America Region*, (Crystal City, VA).

Kairalla J.A., Muller K.E., and Coffey C.S. (August 2007). An internal pilot study with interim analysis for Gaussian linear models. *Annual Joint Statistical Meetings*, (Salt Lake City, UT).

Kairalla J.A., Muller K.E., and Coffey C.S. (March 2007). An internal pilot study with interim analysis for Gaussian linear models. *Annual Meeting of the International Biometrics Society: Eastern North America Region*, (Atlanta, GA).

Kairalla J.A., Coffey C.S., and Muller K.E. (August 2006). GLUMIP 2.0: Free SAS/IML® software for planning internal pilots. *Annual Joint Statistical Meetings*, (Seattle, WA).

Kairalla J.A., Coffey C.S., and Muller K.E. (March 2005). GLUMIP 2.0: Free SAS/IML® software for planning internal pilots. *Annual Meeting of the Eastern North America Region of the Biometrics Society*, (Austin, TX).

LOCAL/UNIVERSITY PRESENTATIONS

Roth, A.J., Rowe, M.A., **Kairalla, J.A.**, Robinson, M.E., & McCrae, C.S. (May 2016). Towards a model of sleep disturbances in caregivers of persons with dementia: Characterizing intraindividual variability in caregivers' sleep compared to non-caregivers. University of Maryland Psychiatry Research Day. *second prize winner

Kairalla, J.A. (March 2016) A pair of ALL studies in late stage development at the COG: AALL15P1 and AALL1631. *University of Florida Department of Biostatistics Seminar Series*.

Winkler SL, **Kairalla J**, Feng H. (February 2014) Who gets which wheelchair or other assistive devices: user versus facility predictors. Nova Southeastern University Research Day (Ft. Lauderdale, FL).

Winkler S.L., **Kairalla J**, Feng H. (May 2013). Non-Veteran Level Factors Related to the Prescription of Assistive Technology Devices and Services to Veterans Post-stroke. *Miami VA Research Day Symposium*. (Miami, FL). *Honorable Mention

Osmani T.M., Freytes M., Young M.E., Castro J.G., **Kairalla J.A.**, Ahern J.K. (April 2013). Communication, Family Functioning, and Veteran's Post-deployment Reintegration: A Pilot Study. Honors poster presented at UF Public Health and Health Professions Research Day. (Gainesville, FL).

Jordan M.M., Holt J., Kang D., **Kairalla J.**, King C., Fillingim R., Ding M., Ahn A. (March 2013). Psychophysical properties of throbbing pain in a human experimental model of pain. University of Florida College of Medicine Celebration of Research (Gainesville, FL).

Kairalla, J.A. (April 2012) Adaptive designs for clinical comparative effectiveness research. *University of Florida Department of Biostatistics Spring Seminar Series.*

Kairalla, J.A. (March 2010) Achieving the Benefits of Both an Internal Pilot and Interim Analysis in Large and Small Samples. *University of Florida Department of Epidemiology and Health Policy Research Seminar Series.*

Elder, J.H., Donaldson, S., **Kairalla, J.**, Bendixen, R., Valcante, G., Ferdig, R., Self, E., Walker, J., Palau, C., Serrano, M., and Galante, T. (March 2009). Comparisons of Mother-Child and Father-Child Interactions During In-Home Play Sessions for Children with Autism. *Seventh Annual Research & Malasanos Lectureship Day*, College of Nursing, University of Florida, (Gainesville, Florida).

Donaldson, S., Elder, J.H., **Kairalla, J.**, Valcante, G., Bendixen, R., Ferdig, R., Self, E., Mutch, P.J., Murphy, T., Walker, J., Palau, C., Serrano, M., and Galante, T. (March 2009). Differences in Perceptions of Mothers and Fathers of Children with Autism in Regards to Stress, Family Cohesion, and Adaptability. *Seventh Annual Research & Malasanos Lectureship Day*, College of Nursing, University of Florida, (Gainesville, Florida).

Gensiejewski, H., Taber, K., Taber, R., Sigsby, L.M., and **Kairalla J.A.** (March 2009). Perceptions perioperative nurses' caring behaviors: Part II. *Seventh Annual Research & Malasanos Lectureship Day*, College of Nursing, University of Florida, (Gainesville, Florida).

Galante, L., Sigsby, LM, & **Kairalla, J.** (March 2008). Perceptions of perioperative nurses' caring behaviors. *Sixth Annual Research & Malasanos Lectureship Day*, College of Nursing, University of Florida, (Gainesville, Florida).

JOURNAL EDITOR

Sage Open 2013, 2014 (Article Editor)

AD-HOC JOURNAL REVIEWS

Psychiatry Research Case Reports 2022

BMC Medicine 2022 (x2)

Journal of the National Cancer Institute 2021, 2023 (x3)

Journal of Pediatric Rehabilitation Medicine 2019 (x2), 2020 (x2), 2021 (x2)

Clinical Pediatrics 2018(x2), 2020

Observational Studies 2015, 2016

Clinical Trials 2016, 2017, 2023(x2)

Stroke 2011, 2012, 2013(x2)

Critical Care 2011

Circulation 2007, 2008, 2009(x2), 2013, 2014, 2015

The Journal of the International Neuropsychological Society 2009(x4)

TEACHING

Instructor or Co-Instructor, University of Florida

Biostatistical Methods Using SAS* (PHC 6790): 2020x2, 2021x2, 2022

Biostatistical Computing Using SAS* (PHC 6937):

2014, 2015, 2016, 2017, 2018(x2), 2019(x2)
Design and Conduct of Clinical Trials I* (GMS 6818): 2010, 2011, 2012, 2013
Design and Conduct of Clinical Trials II* (GMS 6819): 2010, 2011, 2014
Applied Biostatistics II* (GMS 6841): 2009, 2013
Biostatistics Journal Club (PHC 6937): 2014
Intro to Clinical and Translational Research (GMS 7093): 2013 (Group Leader)
*Created/designed course

Guest Lecturer, University of Florida

Frontiers of Biostatistics: 2019(x2), 2020(x2)
Longitudinal Research Design (GMS 6829): 2008, 2009, 2010
Advanced Design and Methodology for Case-Control Studies: 2011, 2012
Design and Conduct of Clinical Trials II: 2012, 2015, 2016
Biostatistics Journal Club:
2012, 2013(x2), 2014, 2015(x2), 2016 (x2), 2017, 2018, 2019, 2020, 2022
Research Designs in Health Outcomes and Policy (2013)

Teaching Assistant, University of North Carolina Department of Biostatistics:

Advanced Linear Models II (Bios 767), 2007
Principles of Statistical Inference (Bios 600), 2005
Probability and Statistical Inference I (Bios 660), 2004
Intermediate Statistical Methods (Bios 662), Fall 2003

STUDENTS MENTORED

Doctoral Level, Chair or Co-Chair:

Graduated:

- Natalie DelRocco: Two Contributions to Statistical Improvement of Clinical Research (2023 UF-Biostatistics)
- Rachel S. Zahigian: Improvements in the design of novel two-stage adaptive clinical trials (2019 UF-Biostatistics)
- Hui Zeng: Graphical approaches to factorial designs (2015 UF-Biostatistics)

Doctoral Level, Committee Member:

Graduated:

- Hanzhi Gao: Privacy-Preserving Techniques with Matrix Masking for Peer-To-Peer Data Sharing (2021 UF-Biostatistics)
- Guan hong Miao: Techniques for Privacy Preserving Data Collection and Analysis (2020 UF-Biostatistics)
- Paul Arthur: Examining the Impact of Dementia Behaviors on Caregiver Well-being (2016 UF-Rehabilitation Science)
- Xinrui Zheng: Avoiding Bias in Longitudinal Internal Pilot Studies (2016 UF-Biostatistics)
- Shanjun Helian: Structural Nested Modeling and Penalized Correlation Methods for Clinical Trials (2016 UF-Biostatistics)
- Isaac Sia: Pharyngeal Swallowing Power: Evaluating A Novel Measure Of Deglutitive Bolus-Driving Function And Its Relationship With Upper Esophageal Sphincter Function (2015 UF-Rehabilitation Science)
- Sandie Ha: Environmental Determinants of Oral Clefts (2015 UF-Epidemiology)
- Sunil Swami: Does anticholinergic (AC) use contribute to cognitive decline and development of dementia? (2014 UF-Epidemiology)

- Elizabeth Radke: Incidence and Risk Factors of Ciguatera Fish Poisoning in the Caribbean and Florida (2013 UF-Epidemiology)

Masters Level Chair, UF-Biostatistics (graduation year):

2023: Michael Ladka
Emily King
2021: Natalie DelRocco
Wentao Chen
2019: Stefanie Drescher
2018: Piyush V. Chaudhari
2017: Kuei-Hsun Chiu
Kaitlyn Faris Dickinson
2015: Wenru Zhou
Yuqi Liang

Masters Level Committee Member, UF-Biostatistics (graduation year):

2017: Huiyin Lu
Peng Xiao
2016: Hang Zhang
Qian Sun
Dan Chen
2015: Zijun Shen
2014: Scott Gulig
Mansi Prasad
Bharath Gottam
Wan Xu

GRANTS and CONTRACTS

RSG-22-029-01-CTPS (ACS) Bona (PI) 7/1/2022-6/20/2025
American Cancer Society
Poverty and Treatment-Associated Neurocognitive Decline in Childhood ALL.
Role: Co-Investigator (UF PI)

U10CA180899 (NIH-NCI) Alonzo (PI) 3/1/2019-2/28/2025
Children's Oncology Group Statistics and Data Center.
The major goals of this project are to provide Database/Statistical support for COG therapeutic and Biology clinical trials.
Role: Co-Investigator (UF Co-PI)
COG Protocols: Senior Study Statistician on the following COG protocols:

- AALL0622, AALL06N1, AALL0631, AALL08P1, AALL0932, AALL15P1, AALL1631, AALL1731

R03CA256550 (NIH-NCI) Teachey (PI) 12/2/2020-12/1/2022
Genomic Profiling of T-cell Acute Lymphoblastic Leukemia in Children
Work to identify the required patient cohorts from specified COG clinical trials for the Genomic Profiling of T-cell Acute Lymphoblastic Leukemia in Children Project; and statistical analyses correlating these features with clinical outcomes
Role: Co-Investigator (UF PI)

MP2PRT (NIH-NCI) Loh (PI) 10/28/2020-7/15/2021

Comprehensive Genomic Profiling to Identify Alterations Associated with Relapse for NCI Standard Risk B-lineage ALL and NCI High Risk B-lineage ALL with Favorable Genetic Features

Work to identify the required patient cohorts from specified COG clinical trials for the Comprehensive Genomic Profiling to Identify Alterations Associated with Relapse for NCI Standard Risk B-lineage ALL and NCI High Risk B-lineage ALL with Favorable Genetic Features; and statistical analyses correlating these features with clinical outcomes

Role: Co-Investigator (UF PI)

R21/R33 AG059207 (NIH-NIA) Manini (PI) 03/01/2019-2/28/2023

Wearable technology infrastructure to enhance capacity for Real-time, Online Assessment and Mobility Monitoring (ROAMM) of intervening health events in older adults.

This award will build an infrastructure to understand the impact of intervening health events (i.e. episodic falls, injuries, illnesses, hospitalizations) using smartwatch apps.

Role: Co-Investigator

R01CA212190 (NIH-NCI) Hardy & Embry (Co-PIs) 7/06/2017 - 5/31/2023

Longitudinal, multimodal assessment of neuropsychological functioning in children diagnosed with high-risk acute lymphoblastic leukemia (HR-ALL): Using early changes to predict later impairment.

Role: Co-Investigator (UF PI)

P50GM115279 (NIH-NIGMS) Relling (PI) 7/01/2019-06/30/2020

Center for Precision Medicine in Leukemia

Work to identify the required patient cohorts from specified COG clinical trials for the Comprehensive Genomic Profiling to Identify Alterations Associated with Relapse for NCI Standard Risk B-lineage ALL and NCI High Risk B-lineage ALL with Favorable Genetic Features; and statistical analyses correlating these features with clinical outcomes.

Role: Co-Investigator (UF PI)

Contract #00114327 (Sanofi US Services) Manini(PI) 2/07/2014 - 2/06/2016

Database analyses for Sarcopenia research.

The goal of the proposed work is to examine the natural history of sarcopenia (loss of muscle mass) and other contributing factors (e.g. muscle strength and comorbid conditions). The results of this research will define cohorts for targeting in clinical trials.

Role: Investigator

1R01HL121023 – 01 (NIH) Manini (PI) 2/1/2014-12/31/2019

MtDNA variant modifiers of cardiopulmonary responsiveness to physical activity

We will integrate clinical, behavioral, and genetic data in models to predict the heterogeneity in cardiopulmonary responsiveness to physical activity. By identifying genetic modifiers, this research will provide a starting point to build a personalized medicine framework to better improve cardiovascular health with physical activity.

Role: Co-Investigator

1U10CA180899-01 (NIH-NCI) Devidas (PI) 3/1/2014-2/28/2019

Children's Oncology Group Statistics and Data Center.

The major goals of this project are to provide Database/Statistical support for COG therapeutic and Biology clinical trials.

Role: Co-Investigator

COG Protocols: Senior Study Statistician on the following COG protocols:

- AALL0622, AALL06N1, AALL0631, AALL08P1, AALL0932, AALL15P1, AALL1631, AALL1731

1R24HS022021-01 (AHRQ) Winkler(PI) 04/05/2013-1/31/2016

Dissemination of Amputation and Prosthetic Evidence-based Medicine (DAP-EM)

The major goal of this project is conduct a randomized clinical trial to compare individual-amputee (health-patient centered) outcomes of a self-management intervention based on evidence-based medicine delivered on CD-ROM versus an interactive virtual world environment

Role: Co-Investigator (UF PI)

1 R01 AG039495-01 (NIH-NINR) Rowe(PI) 8/1/2011-7/31/2016

Improving Dementia Caregiver Sleep and the Effect on Heart Disease Biomarkers

The overall goal of this project is to test whether an intervention specially targeted for this population improves CG sleep, and to explore the relationships between sleep, sleep improvement and CHD biomarkers in a longitudinal study of dementia caregivers

Role: Co-Investigator (UF PI)

U10 CA98413 (NIH-NCI) Anderson (PI) 3/1/2008-2/28/2014

Children's Oncology Group Statistics and Data Center.

Statistics and data coordinating for the Children's Oncology Group (COG), a National Cancer Institute (NCI) sponsored pediatric cancer clinical trials cooperative group, with over 200 institutional members from all over the USA, Canada, Europe and Australia.

Role: Co-Investigator

IIR 11-119 VHA (HSR&D) Mann(PI) 1/01/2012-12/31/2015

Nonpharmacologic Management of Challenging Behaviors in Veterans with Dementia

The objective is to test the efficacy of a transformative patient-centric intervention designed to reduce the burden of neuropsychiatric symptoms (MPS) in Veterans with dementia that live at home with family caregivers.

Role: Investigator

K01 ES019177 (NIH/NIEHS) Xu(PI) 12/08/2011-11/30/2016

Associations between Ambient Air Pollution and Adverse Birth Outcomes in Florida

The goal of this mentored research is to investigate the health effects of air pollution on fetal health.

Role: Co-investigator

VHA (HSR&D) Velozo(PI) 10/1/2011-09/30/2014

Item Banking Across the Continuum of Care

The objective of this study is to use IRT measurement models to develop FIM-MDS item banks (physical functioning and cognitive) and to develop short forms and computer adaptive tests.

Role: Investigator

VHA Freytes(PI) 04/01/2012-03/31/2014

Racial/ethnic variation in family functioning post-deployment

The objective is to examine racial/ethnic variations in Veterans and their significant others' (SO's; spouse/live-in partner) perceptions of post-deployment in multiple dimensions of family functioning.

Role: Investigator

The University of Florida Shuster(Core Director) 07/01/2009-03/31/2014
Clinical and Translational Science Award, Research Design and Analysis Program
The goals are to establish RDAP as an early point of contact to facilitate interdisciplinary CTS, provide a robust training portfolio of basic and advanced graduate courses and short courses in research design, data acquisition and management and analysis concepts and to develop and adopt new methodology needed for CTS design and analysis.
Role: Co-Investigator

VHA B7168R (RR&D) Winkler(PI) 07/01/2010-06/30/2012
Provision of Assistive Technology to Veterans Post-Stroke
The grant's goal is to determine the extent to which VHA facility type and presence of rehabilitation therapist staffing affect the provision of Assistive Technologies (AT) for veterans post-stroke.
Role: Co-Investigator

VHA O4706R (RR&D) Vogel(PI) 05/01/2008-04/30/2012
Cost-Effectiveness of Stroke Rehabilitation Settings in the VA
The aims of the project are to examine the variation in treatment costs, outcomes, and the cost-effectiveness of rehabilitation services for VHA stroke patients in (1) no post-acute rehabilitation and post-acute care in (2) outpatient setting (3) a non-specialized inpatient location (4) nursing home setting, (5) subacute rehabilitation unit, and (6) specialized acute rehabilitation unit.
Role: Biostatistician

3UL1RR029890-03S1 (NIH NCRR) Kairalla (Lead PI) 05/23/2011-03/31/2012
Adaptive Comparative Effectiveness Trials for Comparing Two Treatments
The project will develop and disseminate defensible guidelines for using adaptive sample size re-estimation methods for comparing two treatments in the CER setting. This will be accomplished by literature review, simulation studies, and a clear dissemination plan.
Role: Lead PI and Project Director

VHA DHI 08-114 (HSR&D) Vogel(PI) 01/1/2009 – 12/31/2011
Identifying Potential Demand for VA Rehab Services for OEF/OIF Veterans
The objective of this proposed research is to improve access to rehabilitation services for Operation Enduring Freedom/Operation Iraqi Freedom (OEF/OIF) veterans with spinal cord injury (SCI), traumatic brain injury (TBI), and amputations.
Role: Biostatistician

VA RR&D HSR&D RORC-REAP Pilot Levy(PI) 10/01/2010-09/30/2011
Mechanisms of Central and Peripheral Sensitization in Headache and TBI
The aim of the project is to obtain evidence for the mechanisms underlying post-deployment headache. The hypothesis is that there is evidence for both peripheral and central pain sensitization in those with a history of concussion or mild TBI and post-deployment headache.
Role: Statistician

VA RR&D HSR&D RORC-REAP Core Vogel(PI) 09/15/2008-09/30/2011
Statistical Support, RORC, REAP Project
Provide statistical support in design, analysis, and interpretation of rehabilitation studies for the RORC REAP project.
Role: Statistician

VA248P0139 Skenkman(PI) 08/15/2007-08/14/2010

Stroke QUERI, VA RORC

The work of the Stroke QUERI project is to reduce the risk of stroke and to improve the quality of life for all VA patients with stroke, and those at risk, through collaboration with other VA organizations to implement best practices. QUERI works to improve the quality of healthcare for veterans by implementing research findings into routine clinical practice.

Role: Statistician

The Agency for Health Care Administration (ACHA)

Skenkman(PI)

04/01/2009-03/30/2010

Evaluating Florida's Programs Designed to Improve Birth Outcomes

The goal of this project is to evaluate the impact of three Florida programs designed to improve birth outcomes including an in-depth, community specific analysis of the 2001 Healthy Start waiver, an intervention within high risk obstetric clients, and an intervention within the neo-natal intensive care unit.

Role: Statistician

R01 NR009406-01A1 (NIH-NINR) Kneipp (PI)

9/15/2005 - 05/31/2009

NIH / NINR

CBPR to Reduce Women's Health Disparities thru TANF

The aims of the project are to: 1) redesign the current health screening tool used in welfare-to-work programs to be culturally sensitive and relevant, and 2) test the effectiveness of a comprehensive public health nursing intervention to improve health screening, referral, and management of chronic conditions; ability to navigate the Medicaid system; employment duration; and health outcomes among women leaving welfare for work using a participatory research approach.

Role: Statistician

R01 NR04297-06A2 (NIH-NINR) Elder (PI)

05/01/1998 - 05/31/2009

NIH / NINR

Fathers as In-Home Trainers of Autistic Children

Specific aims of this proposal are: (a) to evaluate the effects of the expanded father training on skill acquisition by fathers, (b) to evaluate the effects of the expanded father training on skill acquisition by mothers, (c) to evaluate the effects of the expanded in-home training on parental stress and family cohesion, and (d) to develop a Web based investigator-father feedback system and evaluate its feasibility during the training protocol and maintenance phases with a subset of five families.

Role: Statistician

R01 CA095749-03 (NIH-NCI) Muller (PI)

01/15/2003-12/31/2007

NIH / NCI

Internal Pilots for Repeated Measures ANOVA

The research explored the use of internal pilots within repeated measures setting.

Role: Graduate Research Assistant