## Allison E. Hainline

Contact Information	2525 West End Ave. Ste. 11000575-491-6174Nashville, TN 37203allison.e.hainline@vanderbilt.edu			
Research Interests	Statistical Analysis of Diffusion MRI, Likelihood Paradigm, Statistical Computing, Cancer Biostatistics			
Education	Vanderbilt University, Nashville, TN			
	<ul><li>Ph.D., Biostatistics, <i>Expected:</i> Summer 2018</li><li>Advisor: Hakmook Kang, Ph.D</li></ul>			
	Baylor University, Waco, TX			
	<ul> <li>B.S., Statistics (Biology minor), May 2013</li> <li>Summa Cum Laude, Phi Beta Kappa</li> <li>Honors Thesis: Frequentist and Bayesian Modeling in the Presence of Unmeasured Confounding</li> </ul>			
Research Experience	Research AssistantJanuary 2015 to presentDepartment of Biostatistics, Vanderbilt University Supervisor: Hakmook Kang, Ph.DJune/July 2012Research AssistantJune/July 2012Statistical Genetics Undergraduate Research Program, Dordt University, Sioux Center, IA Supervisors: Nathan Tintle, Ph.DJune/July 2012			
PUBLICATIONS	<ol> <li>Allison E. Hainline, Vishwesh Nath, Prasanna Parvathaneni, Justin A. Blaber, Kurt G. Schilling, Adam W. Anderson, Hakmook Kang, Bennett A. Landman. "Empirical Single Sample Quantification of Bias and Variance in Q-ball? In Magnetic Resonance in Medicine. (Under review)</li> </ol>			
	<ol> <li>Allison E. Hainline, Vishwesh Nath, Prasanna Parvathaneni, Justin Blaber, Baxter Rogers, Allen Newton, Jeffrey Luci, Heidi Edmonson, Hakmook Kang and Bennett A. Landman. "Evaluation of Inter-site Bias and Variance in Diffusion- Weighted MRI" In SPIE Medical Imaging, International Society for Optics and Photonics, 2018. (In press)</li> </ol>			
	<ol> <li>Vishwesh Nath, Kurt G. Schilling, Allison E. Hainline, Prasanna Parvathaneni, Justin A. Blaber, Ilwoo Lyu, Adam W. Anderson, Hakmook Kang, Allen T. Newton, Baxter P. Rogers and Bennett A. Landman. "SHARD: Spherical Harmonic based Robust Outlier Detection for HARDI Methods" In SPIE Medical Imaging, International Society for Optics and Photonics, 2018. (In press)</li> </ol>			
	<ol> <li>Lakomkin, N., Hainline, A., Kang, H., Hutson, M. S., Arteaga, C., Abramson, R. "The Attenuation Distribution Across the Long Axis of Breast Cancer Liver Metastases at CT: A Quantitative Biomarker for Predicting Overall Survival." Am J Roentgenol. 2017. doi: 10.2214/AJR.17.18249 [Epub ahead of print]</li> </ol>			
	<ol> <li>Kang, H., Hainline, A., Arlinghaus, L., Elderidge, S., Abramson, V., Chakravarthy, A., Abramson, R., Bingham, B., Yankeelov, T. "Combining multi-parametric MRI with receptor information to optimize prediction of pathologic response to neoadjuvant therapy in breast cancer: Preliminary results" (Under review)</li> </ol>			

6. Virostko, J., Hainline, A., Kang, H., Arlinghaus, L., Abramson, R., Blume, J., Avery, S., Patt, D., Goodgame, B., Yankeelov, T., Sorace, A Contrast-Enhanced MRI and Diffusion-Weighted MRI for Predicting th of Locally Advanced Breast Cancer to Neoadjuvant Therapy: A Me (In press)		
	7. Prasanna Parvathaneni; Vishwesh Nath; Justin A Blaber; Kurt G Schilling; Allison E Hainline; Ed Mojahed; Adam W Anderson; Bennett A Landman. "Empirical Reproducibility, Sensitivity, and Optimization of Acquisition Protocol, for Neurite Orientation Dispersion and Density Imaging using AMICO" In Magnetic Resonance Imaging. (Submitted)	
	<ol> <li>Greco, B., Hainline, A., Arbet, J., Grinde, K., Benitez, A., Tintle, N. (2016) "A general approach for combining diverse rare variant association tests provides improved robustness across a wider range of genetic architectures." <i>Eur J Hum</i> <i>Genet</i>, 24(5):767-773.</li> </ol>	
	<ol> <li>Hainline, A., Alvarez, C., Luedtke, A., Greco, B., Beck, A., Tintle, N. (2014) "Evaluation of the power and type I error of recently proposed family-based tests of association for rare variants." <i>BMC Proceedings</i>, 8(Suppl 1), S36.</li> </ol>	
	<ol> <li>Greco, B., Luedtke, A., Hainline, A., Alvarez, C., Beck, A., Tintle, N. L. (2014). "Application of family-based tests of association for rare variants to pathways." <i>BMC Proceedings</i>, 8(Suppl 1), S105.</li> </ol>	
Honors & Awards	Student Awards — Baylor University2009-2013• Dean's List2009-2013• Robert C. Byrd ScholarHenry H. Arnold Education Grant Recipient	
Formal Posters & Presentations	<ol> <li>Hainline, A., Greco, B., Zawistowski, M., Tintle, N. A Variable Threshold Odd Ratio Weighted Sum Test. 2012. 1000 Genomes Project Community Meeting July 13, 2012. Ann Arbor, MI.</li> </ol>	
	<ol> <li>Hainline, A., Alvarez, C., Luedtke, A., Greco, B., Beck, A., Tintle, N. Evaluation of the power and type I error of recently proposed family-based tests of association for rare variants. 2012. Genetic Analysis Workshop 18. October 15, 2012. Stevenson, WA.</li> </ol>	

3. Hainline, A. A Likelihood-based approach to model selection: AIC. Biostatistics Departmental Seminar. October 26, 2016. Nashville, TN. (internal presentation)

Teaching	Teaching Assistant	Fall 2015, Fall 2016
Experience	BIOS 7345 - Advanced Regression Analysis I	
	Instructor: Hakmook Kang, Ph.D	
	Department of Biostatistics,	
	Vanderbilt University	
	Teaching Assistant	Spring 2016
	BIOS 6321 - Clinical Trials and Experimental Design	
	Instructor: Tatsuki Koyama, Ph.D	
	Department of Biostatistics,	
	Vanderbilt University	
	Teaching Assistant	Spring 2017
	BIOS 7346 - Advanced Regression Analysis II	
	Instructor: Jonathan Schildcrout, Ph.D	
	Department of Biostatistics,	
	Vanderbilt University	