

Kraig J. Andrews

CONTACT INFORMATION	666 West Hancock Street Detroit, MI 48201	+1 248-798-9388 fp1361@wayne.edu
RESEARCH INTERESTS	Bayesian modeling, spatiotemporal modeling, spatial data analysis, longitudinal data analysis, computing	
EDUCATION	Wayne State University , Detroit, MI Ph.D., Physics, <i>Expected</i> : May 2018 <ul style="list-style-type: none">• Thesis Topic: ...• Advisor: Zhixian Zhou, Ph.D M.S., , Physics, Feb 2016 Michigan State University , East Lansing, MI B.S., Physics, 2014 B.S., Astrophysics, 2014	
RESEARCH EXPERIENCE	Graduate Research Assistant Nano Fabrication and Electron Transport Laboratory, Department of Physics and Astronomy, Wayne State University Supervisor: Zhixian Zhou, Ph.D.	May 2015–Present
	Undergraduate Research Assistant Neutron Star Evolution and Developmental Limits, Department of Astronomy, Michigan State University Supervisor: Edward Brown, Ph.D	Feb 2013–Dec 2013
	Undergraduate Research Assistant High Resolution Array Group (HIRA): SAMURAI-TPC Project National Superconducting Cyclotron Laboratory, Michigan State University Supervisors: William Lynch, Ph.D and Betty Tsang, Ph.D.	May 2012–Jan 2013
REFEREED JOURNAL PUBLICATIONS	<ol style="list-style-type: none">1. Chamlagain, B., Perera, M., Chuang, H.J., Bowman, A., Rijal, U., Andrews, K., Klesko, J., Winter, C., Zhou, Z. “Substrate dependence of Hall and Field-effect mobilities in few-layer MoS₂ field-effect transistors.” <i>Manuscript in preperation</i>, 2016.2. Toomey, T.L., Erickson, D.J., Carlin, B.P., Lenk, K.M., Quick, H.S., Jones, A.M., and Haroowd, E.M. “The association between density of alcohol establishments and violent crime within urban neighborhoods.” <i>Alcoholism: Clinical and Experimental Research</i>, 36(8):1468–1473, 2012.	
SUBMITTED JOURNAL PUBLICATIONS	<ol style="list-style-type: none">1. Toomey, T.L., Erickson, D.J., Carlin, B.P., Lenk, K.M., Quick, H.S., and Harwood, E.M. “Do neighborhood attributes moderate the relationship between alcohol establishment density and crime?” 2012. Submitted to <i>Prevention Science</i>.	

PAPERS IN PREPARATION	<ol style="list-style-type: none"> 1. Quick, H., Banerjee, S., and Carlin, B.P. “Heteroscedastic variances in areally referenced temporal processes with an application to California asthma hospitalization data.” 2. Quick, H., Carlin, B.P., and Banerjee, S. “Space-time Gaussian process modeling of temporal air pollution gradients.”
AWARDS	<p>Travel Awards</p> <ul style="list-style-type: none"> • Workshop on Environmetrics, Raleigh, NC Oct 2012 • Case Studies in Bayesian Statistics and Machine Learning, Pittsburgh, PA Oct 2011 • IMS/ISBA Joint International Meeting, Park City, UT Jan 2011 <p>Student Awards — University of Minnesota, Division of Biostatistics</p> <ul style="list-style-type: none"> • Outstanding Teaching Assistant Award May 2012 • Outstanding Research Assistant Award May 2011 • James R. Boen Student Achievement Award May 2009 <p>Student Awards — University of Minnesota, Graduate School</p> <ul style="list-style-type: none"> • Doctoral Dissertation Fellowship 2012–2013 <ul style="list-style-type: none"> • The Doctoral Dissertation Fellowship (DDF) program is intended to give the most accomplished final-year PhD candidates an opportunity to complete the dissertation within the 2012–13 academic year by devoting full-time effort to research and writing.
PRESENTATIONS	<p>Statistical Meetings</p> <ul style="list-style-type: none"> • Workshop on Environmetrics, Raleigh, NC Oct 2012 • Joint Statistical Meetings, San Diego, CA Aug 2012 • Biometric Society (ENAR) Regional Meeting, Washington, D.C. Apr 2012 • Case Studies in Bayesian Statistics and Machine Learning, Pittsburgh, PA Oct 2011 • Biometric Society (ENAR) Regional Meeting, Miami, FL Mar 2011 • IMS/ISBA Joint International Meeting, Park City, UT Jan 2011 <p>University of Minnesota</p> <ul style="list-style-type: none"> • Mostly Markov Chain Seminar Series Nov 2011 • School of Public Health Research Day Apr 2011
TEACHING EXPERIENCE	<p>Teaching Assistant Fall 2015</p> <p>PHY 2130 - General Physics I Instructor: Karur Padmanabhan, Ph.D. Wayne State University</p> <p>Teaching Assistant Summer 2015</p> <p>PHY 2131 - General Physics Laboratory I Instructor: Xiang-Qiang Chu, Ph.D. Wayne State University</p> <p>Teaching Assistant Fall 2014–Winter 2015</p> <p>AST 2010 - Descriptive Astronomy Laboratory Instructor: Edward Cackett, Ph.D Wayne State University</p> <p>Teaching Assistant Winter 2014</p> <p>PHY 0232 - Introductory Physics II Instructor: Stuart Tessmer, Ph.D Michigan State University</p> <p>Teaching Assistant Winter 2013</p>

	<p>AST 0208 - Planets and Telescopes Instructor: Edward Loh, Ph.D Michigan State University Teaching Assistant Fall 2013 PHY 0231 - Introductory Physics I Instructor: Tibor Nagy, Ph.D Michigan State University Teaching Assistant Winter 2012 PHY 0232 - Introductory Physics II Instructor: Stuart Tessmer, Ph.D Michigan State University</p>
SERVICE	<p>Recruiting Committee, Division of Biostatistics May 2010 – Present <ul style="list-style-type: none"> Assist with planning of annual Division of Biostatistics Open House and Admitted Student Visit Days Meet with prospective and admitted students Student Member of Search Committee for the June 2010 – Aug 2010 SPH Coordinator of Recruitment and Student Leadership <ul style="list-style-type: none"> Assisted in job search for the SPH Coordinator of Recruitment and Student Leadership Reviewed applications, conducted interviews </p>
REFERENCES	<p>Bradley P. Carlin Phone: 612-624-6646 Mayo Professor in Public Health, Division Head E-mail: carli002@umn.edu Division of Biostatistics University of Minnesota</p> <p>Sudipto Banerjee Phone: 612-624-0624 Professor E-mail: baner009@umn.edu Division of Biostatistics University of Minnesota</p> <p>Traci Toomey Phone: 612-626-9070 Professor E-mail: toome001@umn.edu Division of Epidemiology University of Minnesota</p>
HARDWARE AND SOFTWARE SKILLS	<p>Fabrication, Data Acquisition, Test, and Measurement: <ul style="list-style-type: none"> LabView, Atomic Force Microscopy (AFM), Electron Beam Lithography, Photolithography, Computer-Aided Design (CAD), Scanning Tunneling Microscopy (STM), Transmission Electron Microscopy (TEM), Scanning Electron Microscopy (SEM), and others Computer Programming: <ul style="list-style-type: none"> C, C++, Fortran, GNU make, MATLAB, Mathematica, Python, UNIX shell scripting, and Visual Basic Operating Systems: <ul style="list-style-type: none"> Microsoft Windows family, Apple OS X, Linux OS Desktop Editing: <ul style="list-style-type: none"> \LaTeX(\LaTeX, \LaTeX) Microsoft Office, OpenOffice, LibreOffice GIMP, InkScape </p>