

## Kraig J. Andrews

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CONTACT INFORMATION	666 West Hancock Street Detroit, MI 48201	+1 248-798-9388 kraig.andrews@wayne.edu
EDUCATION	<b>Wayne State University</b> , Detroit, MI  Ph.D., Physics, <i>Expected</i> : Fall 2018, GPA: 3.50/4.00 <ul style="list-style-type: none"><li>• Thesis Topic: “Intrinsic Channel Properties, Scattering Mechanisms, and Quantum Transport Properties in Transition Metal Dichalcogenides”</li><li>• Advisor: Zhixian Zhou, Ph.D</li></ul> <b>Michigan State University</b> , East Lansing, MI  B.S., Physics, May 2014, GPA: 3.25/4.00  B.S., Astrophysics, May 2014	
RESEARCH EXPERIENCE	<b>Graduate Research Assistant</b> Nano Fabrication and Electron Transport Laboratory, Department of Physics and Astronomy, Wayne State University Supervisor: Zhixian Zhou, Ph.D.	May 2015–Present
	<b>Undergraduate Research Assistant</b> Neutron Star Evolution and Developmental Limits, Department of Astronomy, Michigan State University Supervisor: Edward Brown, Ph.D	Feb 2013–Dec 2013
	<b>Undergraduate Research Assistant</b> 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
PUBLICATIONS	1. Chamlagain, B., Perera, M., Chuang, H.J., Bowman, A., Rijal, U., <b>Andrews, K.</b> , Klesko, J., Winter, C., Zhou, Z. “Substrate dependence of Hall and Field-effect mobilities in few-layer MoS <sub>2</sub> field-effect transistors.” <i>Manuscript in preperation</i> , 2016.	
TEACHING EXPERIENCE	Teaching Assistant PHY 2130 - General Physics I Instructor: Karur Padmanabhan, Ph.D. Wayne State University	Fall 2015
	Teaching Assistant PHY 2131 - General Physics Laboratory I Instructor: Xiang-Qiang Chu, Ph.D. Wayne State University	Summer 2015
	Teaching Assistant AST 2010 - Descriptive Astronomy Laboratory Instructor: Edward Cackett, Ph.D Wayne State University	Fall 2014–Winter 2015

Teaching Assistant	Winter 2014
PHY 0232 - Introductory Physics II	
Instructor: Stuart Tessmer, Ph.D	
Michigan State University	
Teaching Assistant	Winter 2013
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	

HARDWARE AND SOFTWARE SKILLS	Fabrication, Data Acquisition, Testing, and Measurement:
	<ul style="list-style-type: none"> <li>• LabView, Atomic Force Microscopy (AFM), Electron Beam Lithography, Photolithography, Computer-Aided Design (CAD), Scanning Electron Microscopy (SEM), and others</li> </ul>
	Computer Programming:
	<ul style="list-style-type: none"> <li>• C, C++, Fortran, GNU make, MATLAB, Mathematica, Python, UNIX shell scripting, and Visual Basic</li> </ul>
	Operating Systems:
	<ul style="list-style-type: none"> <li>• Microsoft Windows family, Apple OS X, Linux OS</li> </ul>
	Desktop Editing:
	<ul style="list-style-type: none"> <li>• <math>\text{\LaTeX}</math>(<math>\text{\LaTeX}</math>, <math>\text{\BibTeX}</math>)</li> <li>• Microsoft Office, OpenOffice, LibreOffice</li> <li>• GIMP, InkScape</li> </ul>
RELEVANT GRADUATE COURSEWORK	<ul style="list-style-type: none"> <li>• Advanced Quantum Mechanics I &amp; II</li> </ul>
	<ul style="list-style-type: none"> <li>• Survey of Condensed Matter Physics</li> </ul>
	<ul style="list-style-type: none"> <li>• Statistical Mechanics</li> </ul>
	<ul style="list-style-type: none"> <li>• Electrodynamics</li> </ul>
	<ul style="list-style-type: none"> <li>• Thermal Physics</li> </ul>