CURRICULUM VITAE

RACQUEL IVY AWUOR

Masters Candidate

Contact Information:

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EDUCATION

Institution	Degree	Date	Field of Study	Overall GPA
University of Rochester	MSc	2017 (Expected)	Electrical and Computer Engineering	4.0/4.0
University of Rochester	BSc (Distinction)	2015	Electrical and Computer Engineering	3.6/4.0

RESEARCH INTERESTS

- Software Engineering, Computer Engineering, software development, Biomedical Engineering.

HONORS:

Fellowships/Scholarships:

- *2015 ECE Department Faculty Award (May 2015)*

This is an award presented by the Electrical and Computer Engineering Department of the University of Rochester, in recognition of student achievement and stewardship in the department.

-2015 William M Barnard Prize (May 2015)

An award for engineering and strong personal qualifications that goes to students pursuing higher education in engineering.

-*American Heart Association Summer Undergraduate Fellowship (May 2014 – August 2014)*

This fellowship was awarded to fund cardiovascular research for the summer of 2014. It included a stipend for the period over which the research was carried out.

-*Renaissance and Global Scholarship (2011-2015)*

This is a merit based full tuition scholarship awarded to undergraduates at the University of Rochester to pursue any area of academic interests in the University.

RESEARCH EXPERIENCE:

-*Undergraduate Research Assistant,* Department of Electrical and Computer Engineering, University of Rochester. Advisor: Professor Marvin Doyley (2013-August 2014)

PUBLICATIONS:

Peer reviewed journals:

1) Himanshu Shekhar, **Ivy Awuor**, Keri Thomas, Joshua J. Rychak, and Marvin M. Doyley, "The delayed onset of nonlinear emissions from phospholipid-encapsulated microbubble contrast agents: implications for imaging and therapy", in press, Ultrasound in Medicine and Biology.

In Review/In Preparation

2) Himanshu Shekhar, **Ivy Awuor**, and Marvin M. Doyley, "The feasibility of subharmonic and ultraharmonic imaging with a modified clinical intravascular system", in review, IEEE Trans. UFFC (2014).

Selected Conference Abstracts:

1) Himanshu Shekhar, **Ivy Awuor**, Steven Huntzicker and Marvin Doyley, "Ultraharmonic intravascular ultrasound imaging with commercial 40 MHz cathether: a feasibility study", 168th Meeting of Acoustical Society of America, Indianapolis, Indiana, USA (2014).
2) Himanshu Shekhar, **Ivy Awuor**, Sahar Hashemgeloogerdi and Marvin M. Doyley, "Nonlinear intravascular ultrasound contrast imaging with a modified clinical system", 167th Meeting of Acoustical Society of America, Providence, RI, USA (2014) submitted.

TEACHING/MENTORING EXPERIENCE

-*Peer Academic Advisor (ECE department University of Rochester) (Fall 2014 - Spring 2015)*

I act as a liaison for the ECE department at the University of Rochester. My duties include meeting with students to answer questions regarding the ECE major coursework and general questions about how to cope in the program. In addition, I meet monthly with the department coordinator to discuss plans to better the ECE program for current students.

-*Teaching Assistant*

1) *ECE 230 (Fall 2014) - Head Undergraduate Teaching Assistant*

I was responsible for ensuring that students completed labs on time. I also responded to students questions regarding course work and provided guidance during the lab exercises. Outside the lab, I supervised the final project and graded lab reports

2) *Principles of Biology (Spring 2013)*

My responsibilities included conducting recitations, grading quizzes, midterm and final exams, and holding office hours for students to respond to their questions regarding the course material

-*Center for Excellence in Teaching and Learning: 1) Workshop Leader: Principles of Biology (Spring 2013), 2) Calculus Tutor (Spring 2014)*

-Conducted one on one tutoring sessions and held weekly workshop sessions to review class material.

- Helped students solve homework questions (webwork) and past exam questions in preparation for midterms.

PROFESSIONAL MEMBERSHIPS

-Student member: Institute for Electrical and Electronics Engineers (IEEE), Society of Women Engineers (SWE).

TECHNICAL SKILLS

Programming : C++, C, Python, HTML/CSS, Javascript (JQuery), MATLAB, Verilog, VHDL, Faust, Objective C, Bootstrap, Git, Jekyll, Markdown.

Circuits/Hardware: HSPICE, ADS, Asitic, MIPS (assembly language), Circuit design and prototyping

REFERENCES:

1) **Dr. Himanshu Shekhar,** Postdoctoral Fellow, University of Cincinnati, Department of Internal Medicine, Division of Cardiovascular Health and Disease.

   Email: himanshu.shekhar@uc.edu – Phone: +1-(585)-281-2587

2) **Dr. Marvin M. Doyley**, Assistant Professor of Electrical and Computer Engineering, and Biomedical Engineering, University of Rochester.
   Email: m.doyley@rochester.edu - Phone: (585) 275-3774

3) **Dr. Thomas Hsiang**, Professor of Electrical and Computer Engineering, University of Rochester.
   Email: thomas.hsiang@rochester.edu – Phone: 585 275 3293

4) **Dr. Wendi Heinzelman**, Professor of Electrical and Computer Engineering, University of Rochester.
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