

EMILY LAM

7 Newton St. #3, Cambridge, Massachusetts 02139
www.ylimelam.com 617 353 0237 emilylam@bu.edu

Interests:

Future Technologies, Optical Wireless Communications, User-Technology Relationships, Smart Spaces, Embedded Systems, Electronics, Visual Art, Design, and Writing.

Education:

- 2016 – Present **Ph.D. in Electrical Engineering, Boston University, Boston, MA**
Dissertation: Work in Progress
Advisor: Prof. Thomas D.C. Little
- 2014 – 2016 **M.S. in Electrical Engineering, Boston University, Boston, MA**
M.S. Project: Visible Light Communication and Positioning
Advisor: Prof. Thomas D.C. Little
- 2010 – 2014 **B.S. in Electrical Engineering, Boston University, Boston, MA**
Senior Design Project: Portable Solar Energy Harvester
Cum Laude

Relevant Work Experience:

- 2014 – Present **Graduate Research Assistant**
Multimedia Communications Lab, Boston University, Boston, MA
Center for Lighting Enabled Systems & Applications (LESA)
Advisor: Prof. Thomas D.C. Little
- 2014 **Electrical Engineering Intern**
IDEO, Chicago, IL
- 2013 – 2014 **Undergraduate Research Assistant**
Multimedia Communications Lab, Boston University, Boston, MA
NSF Smart Lighting Engineering Research Center
Advisor: Prof. Thomas D.C. Little
- 2012 – 2013 **Undergraduate Research Assistant**
Applied Electromagnetics Lab, Boston University, Boston, MA
Advisor: Prof. Mark Horenstein

Teaching and Outreach:

- 2016 – Present **Graduate Teaching Assistant**
EC544: Networking the Physical World, Department of Electrical and
Computer Engineering, Boston University

- 2015 – Present **Instructor**
LESA/NSF Smart Lighting ERC Outreach Program
BU Summer Pathways, Boston University
- 2015 – Present **Mentor**
Graduate Women in Science and Engineering, Boston University
- 2011 – 2014 **Student Advisor and Dean’s Host**
College of Engineering, Boston University
- 2011 – 2013 **Grader**
Math Reasoning Courses, School of Education, Boston University
- 2008 – 2011 **Assistant Teacher**
Design Camp, Future Engineers Center, UMASS Lowell
- 2010 – 2011 **Math and Science Tutor**
Upward Bound Program, MIT/Wellesley University

Awards and Leadership:

- 2015 – Present University Chair, LESA/Smart Lighting ERC Student Leadership Council
- 2016 – 2017 Distinguished Electrical Engineering Fellowship
- 2014 Student Advisor Service Award
- 2014 Best Hardware -- BU Makeathon
- 2013 Clare Boothe Luce Scholar
- 2013 UROP Faculty Matching Grant
- 2013 Summer Term Alumni Research Scholar

Talks and Presentations:

- 2011 Invited Alumni Speaker, Senior Banquet, National Honor Society, Lowell High School

Publications, Posters, and Articles:

1. E. Lam, H. Elgala, and T. D. C. Little, “Subcarrier Allocation for Communication and Positioning,” at Center for Lighting Enabled Systems Applications Industry-Academia Days, 2017 (Poster).
2. E. Lam, H. Elgala, and T. D. C. Little, “SEE-OFDM Compared to Other Combination Optical OFDM Techniques,” at Center for Lighting Enabled Systems Applications Industry-Academia Days, 2016 (Poster).
3. E. Lam, S. K. Wilson, H. Elgala, T. D. C. Little, “Spectrally and Energy Efficient OFDM (SEE-OFDM) for Intensity Modulated Optical Wireless Systems,” in CoRR, 2015 (Publication).
4. A. Mellen, C. Feldman, and E. Lam, “brACE, A Slouch Detection Wearable,” in Circuit Cellar Magazine, 2015 (Article).
5. E. Lam, H. Elgala, and T. D. C. Little, “Optical OFDM and Dimming in Visible Light

- Communications,” at GE Global Research Center Student Research Summit, 2015 (Poster).
6. E. Lam, H. Elgala, and T. D. C. Little, “Optical OFDM and Dimming in Visible Light Communication Systems,” at Smart Lighting ERC Industry-Academia Days, 2015 (Poster).
 7. E. Lam, J. Chege, J. Glynn, J. Jones, N. Madonna, M. Siwkiewicz, and T. D. C. Little, “TiLED (Tiled LED) Smart Room,” at Boston University Undergraduate Research Symposium, 2013 (Poster).