

2015: Top ECE stories of the year

The former news reporter in me couldn't fathom ending the year without a Top 10 list. It's what you do. So, without further ado, here are the most popular online stories out of the ECE department in 2015:



1. Sign of Success: Martinez wins Google Faculty Research Award

Professor **Aleix Martinez** wins the Google Faculty Research Award for creating software to make learning

American Sign Language more accessible. He incorporates real-time video facial and hand detection, offering useful feedback to the learner. He is also featured in today's ECE Weekly, so check that story out too. **Story:** <http://go.osu.edu/am-google>

2. Cell by Cell: Curing cancer at the nanoscale

PhD student **Lingqian Chang** getting attention and awards in the industry for his work helping to cure cancer at the nanoscale by channeling electrical fields at the cellular level.

Story: <http://go.osu.edu/chang>



3. Reading the brain, wirelessly



PhD student **Cedric Lee** is using electromagnetics to wirelessly read brain signals to someday help solve the mystery of paralysis, epilepsy and Alzheimer's disease.

Story: <http://go.osu.edu/ece-brain>

4. Two receive 2015 Mathis Memorial Scholarship

ECE undergrads **Innas Al Razi** and **Ramadan Issack** became the latest recipients of the department's Harold F. Mathis Memorial Scholarship.

Story: <http://go.osu.edu/Razi-Issack>

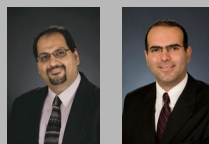


5. ECE joins White House energy reduction initiative



ECE professor **Longya Xu** and his team receive \$3 million to help reduce national transportation and industrial energy use by year 2030. **Story:**

<http://go.osu.edu/xu-energy>



6. Weapons of Mass Destruction: Navigating large scale power failures

In a topic all over the news this year, ECE professors **Ness Shroff** and **Atilla Eryilmaz** are leading multi-university teams to help the government solve how states might recover from large-scale power grid attacks or failures. **Story:** <http://go.osu.edu/wmd-ece>

7. Seminar: German Enigma Machine and WWII

Not even an article at all, the **German Enigma Machine** seminar held in Dreesse got a packed house and a big response online. **Story:** <http://go.osu.edu/enigma>



8. Real-Time Robotics



Technically, this might actually be the top story of the year. Both the video and article I created saw a lot of activity. Sticking to the rules, however, the article alone on PhD students **Sihao Ding** and **Ying Li** got a lot of interest. Their robot is designed to track and follow people for use in assisting the elderly.

Story: <http://go.osu.edu/real-time-robot>

Video: <http://go.osu.edu/real-time-robot-vid>

9. Ertin speaks to presidential workgroup on tech healthcare

ECE professor **Emre Ertin** was among a handful of national experts asked to advise a tech healthcare workgroup created by president Barack Obama.

Story: <http://go.osu.edu/ertin>



10. Advancing the realms of 5G



Research assistant professor **Jia "Kevin" Liu** won a three-year National Science Foundation Grant to explore MIMO networking, a key component for future 5G wireless networks of the future. **Story:** <http://go.osu.edu/liu>

ECE List of Links

ece.osu.edu
<http://www.facebook.com/eceosu>
<http://twitter.com/OhioStateECE>
<http://go.osu.edu/ece-linkedin>
<http://youtube.com/user/ECEosu>
<http://meetup.com/OSUECE-Alumni>

Save the date

• The IEEE Undergraduate Winter banquet happens Jan. 30.

Story: <http://go.osu.edu/IEEE-OSU>

• K-12 Engineering Outreach Meetup, Jan. 14. **RSVP:** <http://go.osu.edu/STEM-meetup>