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# Network Science Center at West Point

Advancing the Study of Network Science

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## Network Science Researcher Visits Ethiopia

Submitted by Dan Evans

Network Science Center researcher, Dan Evans, had the opportunity to visit Addis Ababa, Ethiopia this month in support of two ongoing NSC projects, 'Network Analysis Tool Kit' and 'Entrepreneur Networks'. Both projects assist in the analysis and understanding of economic development in frontier markets. This summer two West Point cadets will further the research by gathering data, adjusting the network model and then presenting their findings as part of an Academic Individual Advanced Development (AIAD) trip.



### The Network Analysis "Tool Kit":

The Network Science Center is developing a collaborative relationship with the State Department and exploring whether the research team can develop a network analysis software package which would provide policy and decision makers with a "tool kit" that assists in the development of policy, backed by a rigorous quantitative analysis package. Based on the environment the customer is operating in, this tool can identify key people and organizations and recommend the engagement approach that should be taken based on the mathematical characteristics of these key "nodes." Mr. Evans had the opportunity to demonstrate a "beta version" of this "tool kit" to Daniel Rosenthal, the Economics and Commercial Officer at the US Embassy as well as to Peter Lord, the Deputy Chief of the US Mission to the African Union.

It was agreed that NSC would develop the next iteration of the tool based on the "economic development" environment that Mr. Rosenthal, the Commercial Officer operates in within Ethiopia. This next iteration will be developed by a team consisting of Cadets Evan Szablowski and Zachary Langhans as well as two Network Science summer interns. The cadets will join Mr. Evans on an AIAD in July and will brief the improved model to the Embassy Staff during the return visit.

### Entrepreneur Networks

Dan Evans also spent time at iceaddis, Ethiopia's first high tech innovation hub. iceaddis is located on the beautiful campus of the Ethiopian Institute of Architecture, Building Development, and City Development (EiABC). While in Ethiopia, he met with the hub's managing director, Sarah Abdulhafiz. The Network Science Center is initiating a project that will develop models of entrepreneur networks in frontier markets and have identified the network in Addis Ababa as one of great potential and at a state in its growth trajectory where vital data can be captured before the explosion.

During the AIAD in July, the research team will interview local entrepreneurs that are associated with this hub as well as entrepreneurs that are participating in a program sponsored by Center for Creative Leadership (CCL). The CCL has recently established an office in Addis Ababa and is heavily involved in a mentoring program with a group of 25 women col-



lege students who are associated with iceaddis.

### Seminar on US-Ethiopia Trade and Investment Challenges

While in Ethiopia, Mr. Evans participated in a seminar hosted by the US Ambassador at the US Embassy. Approximately 150 business and government leaders shared discussions on the US Government's perspective on doing business and investing in Ethiopia. Opportunities in the agricultural, energy, manufacturing, and communication technology sectors were the primary focus of the seminar's conversation.

Click [here](#) to read the full report.

## Cadet Team Wins Network Science Excellence Award

On Projects Day twenty-one research projects were entered into the competition for the Network Science Excellence Award. Individuals and teams presented a poster on their research to two judges, Dr. John James and Dr. Fred Moxley. The posters covered a wide range of topics from effects of PIPA and SOPA on file sharing, copyright policies and negotiations to the spread of disease and homelessness in urban communities, but all of them used network science to analyze the data collected. All of the presentations were well received by the judges and demonstrated the interdisciplinary nature of network science.

### First Place:

Research of Insurgent Network Graphs –

CDT Kelly Eyre, CDT Theodore Taggart and CDT Randolph Rotte III

### Second Place:

A Network Science Approach to Protests and Riots – CDT Theodore Fong

### Third Place (tie):

Effects Sex Education Policies on STDs and Pregnancy – CDT Sara Lehman, CDT Kirby Kastner, CDT Jeremy Maness

Drug Trafficking Networks – CDT Kelly Eyre, CDT Ben Johnson, CDT Taylor Mosera

Congratulations to all of the winners for this year's competition!

## Current Publications/Presentations:

Current articles are on NSC website under Publications or linked below:

[The Influences of Social Networks on Phishing Vulnerability](#)

[Seeing the Real World: Sharing Protected Data in Real Time](#)