

# Gwak, Yeongjin

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## EDUCATION

**Seoul National University**, Seoul, South Korea  
M.S. and Ph.D. Candidate in *Physics*

**Korea Advanced Institute of Science and Technology (KAIST)**, Daejeon, South Korea  
B.S. in *Physics*

February 2015

## WORK EXPERIENCE

**Hawoong Jeong's Laboratory**, KAIST, South Korea  
*Thesis Candidate*

August 2014 - December 2014

- Further developed the crawling program by adding additional features
- Analyzed the research network of authorized papers (e.g. papers that won Nobel Prize) to study the correlation between the titles of the papers and their citation counts

*Undergraduate Researcher*

July - August 2014

- Made a crawling program that collects information about academic papers on online
- Collected research data in Samsung Medical Center (SMC) and analyzed the network of researchers in SMC.

**Computer Emergency Response Team**, KAIST, South Korea  
*Senior Member*

March 2014 - June 2014

- Analyzed and fixed various defects of computer servers in KAIST
- Guided the next team leader

*Team Leader*

September 2012 - February 2014

- Organized, led, and taught a hacking team composed of 10 members
- Found, improved, and fixed several critical defects in computer servers in KAIST (e.g. KAIST's main homepage's vulnerabilities and Heartbleed Bug in servers that use Secure Socket Layer (SSL))

*Junior member*

March 2012 - August 2012

- Studied diverse web hacking skills
- Analyzed several websites and found vulnerabilities

**Hacking Project in SAMSUNG SMART TV**, KAIST, South Korea

*Member of GoN (KAIST's Hacking Team) & SysSec Collab Team (KAIST's Graduate School's Laboratory)*

March 2013 - December 2013

- Analyzed computer systems and found several vulnerabilities in SAMSUNG SMART TV
- Found flash player vulnerabilities in application of developers and flaws in data cryptography in virtual keyboard UI (User Interface).
- Collaborated with several graduate students in KAIST Graduate School of Information Security

## SCHOOL & CONFERENCE INVOLVEMENT

**Numerical Relativity Summer School**, Beijing, China  
*Participant*

August 2014

- Learned computational approach to general relativity using Einstein toolkit

**2<sup>nd</sup> Life Physics School**, Pohang, South Korea  
*Participant*

July 2014

- Participated in summer school that dealt with topics on information of life (biophysics)

**STATPHYS25 (International Conference on Statistical Physics)**, Seoul, South Korea  
*Volunteer*

July 2013

- Aided in organizing STATPHYS25 by assisting the keynote speakers
- Attended several talks in the conference

**Science Laboratory Visit**, California, USA  
*Visitor*

January 2012

- With the funding from alumni of KAIST, visited several laboratories (Lawrence Livermore National Laboratory, Sandia National Laboratory, etc.) in San Francisco

## SKILLS

**Language:** Fluent in Korean and English

**Computer:** LaTeX, C, Python, Java, Ruby, MS Office (Word, Excel, Powerpoint), Mathematica, HTML