

# CURRICULUM VITAE

## HOJIN JANG

207, Pangyowon-ro, Bundang-gu, Seongnam-si, Gyeonggi-do, South Korea  
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### EDUCATION

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#### Korea Univ., Seoul, Korea

Sep. 2014 - Present

##### *Master of Engineering; will complete in 2016*

- Major : Brain and Cognitive Engineering | GPA : 3.93 / 4.50
- Advisor : Prof. Jong-Hwan Lee

#### Korea Univ., Seoul, Korea

Mar. 2008 - Aug. 2014

##### *Bachelor of Engineering*

- Major : Computer Science | GPA : 3.68 / 4.50
- Advisor : Prof. Hee-Jo Lee

### RESEARCH INTEREST

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fMRI, Deep Learning, Visual Decoding, Brain disease

### PUBLICATION

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1. Ho-Jin Jang, Jong-Hwan Lee\*, "Task-specific feature extraction and classification of fMRI volumes using deep neural network initialized with deep belief network: Evaluation using sensory-motor tasks", waiting for review at *Neuroimage*
2. Ho-Jin Jang, Jong-Hwan Lee\*, "Deep belief network with 1,000 Functional Connectome Project resting-state fMRI data", in preparation for *Neuroimage*

### RESEARCH EXPERIENCE

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#### Brain Signal Processing Laboratory, Korea Univ., Seoul, Korea

Sep. 2014 - Present

##### *Research Trainee*

- Advisor : Prof. Jong-Hwan Lee
- Assisted fMRI and EEG experiment for theory of mind
- Modified MIST (Montreal Imaging Stress Task) software to adjust to real-time fMRI experiment
- Applied Deep neural network to voxel-unit fMRI volumes and analyzed hierarchical weight and hidden representation with CUDA GPU programming
- Employed Deep belief network with 1,000 Functional Connectome Project to reveal resting-state brain network from large functional data

#### Mind Brain Laboratory, Korea Univ., Seoul, Korea

Mar. 2014 - Jul. 2014

##### *Student Assistant*

- Advisor : Prof. Byung-Kyung Min
- Assisted EEG and Ultrasound experiment
- Performed basic EEG data analysis such as Fourier Transform and Wavelet

#### Neurodegeneration Center, Kyung-Hee Univ., Seoul, Korea

Jul. 2013 - Aug. 2013

##### *Research Assistant*

- Advisor : Prof. Sung-Hyun Kim
- Cultured hippocampal neuron cells from mice and performed miniprep/maxiprep and transformation/transfection
- Observed neural response to electrical stimulus by electron microscope and analyzed the effect of mitochondria on synapse

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▪ **SCHOLARSHIP**

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- Best Honors Scholarship, Korea Univ., Seoul, Korea** Mar. 2012 - Jul. 2012
- Given to the top-ranked student
  - Full tuition

▪ **EXTRA-CURRICULAR ACTIVITIES**

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- KUICS (Korea University Institute of Computer Security) Club, Korea Univ., Seoul, Korea** Mar. 2008 - Dec. 2008
- Studied data protection and information security

- KWEB (Korea WEB) Club, Korea Univ., Seoul, Korea** Mar. 2008 - Dec. 2013
- Studied WEB programming and network
  - Leader of the club (2009)
  - Participated NAVER API Mashup Competition (2009)

- Volunteer Teaching Program, Margaret Church, Seoul, Korea** Sep. 2008 - Dec. 2008
- Taught mathematics for elementary and middle school students

- Global Leadership Center, Korea Univ., Seoul, Korea** Dec. 2011 - May. 2012  
*Assistant Staff*
- Prepared for the Global Leadership Summer School and lectures

- Exchange Student Program, Laval Univ., Quebec, Canada** Jan. 2013 - Apr. 2013
- Information technology management and French elementary courses

- English Academic School, Vancouver, Canada** May. 2013 - Jul. 2013
- Advanced level

- KUBA (Korea University Buddy Assistant) Club, Korea Univ., Seoul, Korea** Dec. 2011 - May. 2012
- Assistance for foreign exchange student

▪ **MILITARY SERVICE**

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- Fire Direction Center, 36<sup>th</sup> Artillery Division of Army** Jul. 2009 - May. 2011
- Honorably discharged upon completing military service as a sergeant

▪ **TECHNICAL SKILLS**

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**Computer Skills**

- OS : MS Window, Linux
- Languages : C, C++, C#, JAVA, MATLAB, HTML, CSS, Javascript, PHP, Assembly

**Languages**

- Korean (native), English (fluent)

▪ **REFERENCES**

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1. Prof. Jong-Hwan Lee
2. Prof. Heung-Il Suk
3. Prof. Doo-Kwon Baik