**Curriculum Vitae - Ji Hyun Yang**

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| **Contact**  **Information** | 38-318 Seoul National Univ., Seoul, 08826, South Korea  Mobile : +82-10-6355-2385  Dial-in : +82-2-880-7224  Email : [sodapop92@gmail.com](mailto:sodapop92@gmail.com) |
| **Fields of**  **Interest** | **Waveform Inversion**   * - Optimal generalized inverse for the Laplace and Laplace-Fourier domain waveform inversion * - Regularization for waveform inversion   **Program optimization for geophysical software**  - Parallel computing optimization with CUDA and MPI  **Machine Learning**  - try to integrate machine learning scheme in Geophysical inversion  - try to use Radial Basis function network to enhance the performance of Laplace waveform Inversion  **Signal Processing & Image processing**  - Interest in PCA methods. |
| **Education** | ***Bachelor of Engineering*** (February2016)  Energy Resource Engineering, Seoul National University, Seoul, Republic of Korea  ***Bachelor of Science*** (February2016)  Computational Science, Seoul National University, Seoul, Republic of Korea |
| **Research**  **Subjects** | **Researcher** Mar. 2016 ~ Present  *Institute* : Geophysical Prospecting Lab., Seoul National University  *Subject* : Research on Exploration Technologies and an On-site Verification  to Enhance the Fracturing Efficiency of a Shale Gas Formation  *Funding* : Ministry of Trade, Industry & Energy  **Researcher** Mar. 2016 ~ Present  *Institute* : Geophysical Prospecting Lab., Seoul National University  *Subject* : Iterative Direct Waveform Inversion for subsurface imaging  *Funding* : Ministry of Trade, Industry & Energy |
| **Computer Skills** | **Programming**  - Advanced programmer in Modern Fortran(Fortran90)  - Advanced programmer in C++  - Advanced programmer in MATLAB  - Advanced programmer in Python  Worked as a freelancer to create document auto-generating program for English tutoring  Worked as a private tutor to teach algorithms  - Advanced programmer in Java  Worked as a private tutor to instruct computer programming, algorithms  Worked as a freelancer programmer to create document auto-generating program for English tutoring  - Intermediate programmer in CUDA parallelization  - Intermediate programmer in MPI parallelization  - Experience in web framework Django: created personal blog  - Experience in OpenGL, OpenMP, OpenCV, Tensorflow Libraries, Raspberry Pi |
| **Associations** | Society of Exploration Geophysicists (SEG)  Society of Petroleum Engineers (SPE) |
| **Internships** | **Visiting Scholar** Sep. 2017 ~ Present  Geophysics Lab, Texas A&M University (Advisor: Dr. Gibson) |
| **Languages**  **External Activities** | Fluent in Korean(Native)  Fluent in English  Performed English translation work of Inha University online public lecture (MOOC) for one year  - Physics lecture subtitle translation  - FTA Economy Lecture Subtitle Translation  Worked as a support intern in Office of Public relations in Engineering department of Seoul National University to help foreign students  TEPS(Test of English Proficiency developed by Seoul National University) 864  TOEIC 915  Novice level of Japanese, Spanish and French  Exchange student experience (École des mines) and summer school activities (in Tokyo University) enable me to communicate with foreigners without any problems  Staff and members of SNU's running club (Dalisha)  - Half marathon and more than ten times of 10km marathon run  Member of SNU Computer Science Society (SCSC)  - Participate in Python education activities and machine learning seminars  Samsung Dream Class Mentoring  - Mathematics and English Teaching of Low Income Middle School Students (2013 ~ 2014) |
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