

Da-Eun YOO

23 years old – south korean

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## EDUCATION

- 2013-2014 : Master 1 Fluid Mechanics : Foundations and Applications at Pierre and Marie Curie University, Paris
- Sept. 2013 : Obtained Bachelor Degree of Mechanical Engineering at Pierre and Marie Curie University, Paris

## PROFESSIONAL EXPERIENCE

- May – August 2014 : Internship at King Abdullah University of Sciences and Technology.  
“CFD investigation on subcooled boiling flow under deterioration conditions in vertical channels” with Workbench 14.5 and ANSYS Fluent
- July-August 2011 : hostess at Bob&co.

## QUALIFICATIONS

### Fluid Mechanics :

- Incompressible/compressible aerodynamics, subsonic, supersonic, thin airfoil theory
- Turbulence: DNS, RANS, RANS-VLES, LES, RANS  $k-\epsilon$ , RSM, interfaces dynamics
- Boundary layer, shock waves

### Numerical Methods :

- Finite Volume Elements (centered, power-law, QUICK, CFL)
- Resolution with Gauss-Seidel, LU, Cholesky, SOR

### Computer Sciences:

- *Programming*: Fortran 90/95, Matlab
- *Simulation*: ANSYS Fluent, ANSYS ICEM, Xfoils, Aerodynamics, Comsol with Matlab

### Thermics and thermodynamics:

- Forced/natural convection, intern/extern, conduction, convection-radiation coupling
- Electro-chemistry, thermodynamic cycles (Rankine, Hirn, Otto, Vrayton, Stierling, Diesel, Atkinson, cooling systems)

**Languages :** English (TOEIC 985), Korean (diploma of Yonsei Korean Language Institute), Spanish (DELE nivel inicial)