

## Reactor Physics & Nuclear Engineering graduate student

ALY Zineb

### PERSONAL INFORMATION

**Address:** 249 Johnson Terrace, State College, PA 16803 USA

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**Phone:** 003 36 32 32 68 74

**Date of birth:** September 27, 1994 in Casablanca, Morocco

**Nationality:** Moroccan

### EDUCATION

**Master of Science in Nuclear Engineering** 2017 - Current

Penn State University, Mechanical and Nuclear Engineering department, PA, USA

**Master of Science in Reactor Physics & Nuclear Engineering** Graduating in July 2018

Phelma - Grenoble Institute of Technology, Grenoble, France

**Bachelor of Science in Engineering : Physics Materials process** 2016

Phelma - Grenoble Institute of Technology, Grenoble, France

**Preparatory Classes, Fundamental Maths and Physics** 2015

Prépa Victor Hugo, Besançon, France

*3 years of intensive program preparing for the national entry exams of engineering schools*

### RESEARCH EXPERIENCE

**UK Atomic Energy Authority – CCFE** May - August 2017

- Exploring spatial heterogeneity effects of burn up of material under fusion neutron irradiation.
- Used MCNP for neutron flux simulations and FISPACT-II for irradiation simulations.

**International Physicists' Tournament IPT2017** 2016-2017

- Worked on the magnetic fissioning of ferrofluid droplets.
- Developed teamwork skills and scientific knowledge.

### WORK EXPERIENCE

**Graduate Teaching Assistant - Nuclear Engineering Department of Penn State**

**University** August 2017- Current

- *Holding office hours, grading, preparing homework solutions and occasionally lecturing for 403 course : Advanced Reactor Physics*

**Waitress, Restaurant du Park Hotel, Grenoble, France** October- November 2016

- *Received international guests and attended to their needs during their stay*

**Office assistant, internship, RANIDOL Construction, Casablanca, Morocco** July 2016

- *Directed/Led a group of workers in the building trade and other administrative tasks*

**Physics Teacher, Villa Hélène primary school, Saint-Egreve, France** January-May 2016

- *In collaboration with La Main A La Pate foundation and Grenoble Institute of Technology*
- *Promoted new teaching methods based on active learning through reasoning, guided investigation and experimentation.*

**Waitress, Restaurant le KAF, Besançon, France** July-August 2015

**Waitress, Le Callahan, Besançon, France** October 2013 - February 2014

### SKILLS

**Language proficiency** → Arabic, French and English : Fluent

**Computer proficiency** → Python, Matlab basis, C basis , Solid Edge, MS Office

### PUBLICATIONS

Zineb Aly and Jérôme Delamare, 2016. Une production autonome d'énergie, sans fil ni prise. *Encyclopédie de l'énergie website*, n° 200.

### INTEREST

**Schools without borders NGO, Morocco and the U.S** 2011-2012

- *Managed an exchange program between high school students in both the U.S and Morocco*
- *Led a group of students to improve access to education for girls in suburbs.*

**Art, Oil and Acrylic Painting. Practised Belly dance for 3 years.**

### REFERENCES

Available upon request