

ALİ VÂLÂ KOÇ

Bilkent Üniversitesi, Fen Fakültesi Kimya Bölümü, SB binası, Ankara

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Date of Birth: 21.01.1993

Gender: Male

Citizenship: Turkish

PROFILE

I am a curious, hardworking and dedicated person. The education that I have taken so far, increased my curiosity and skills exponentially therefore I headed towards research. I am eager to learn new things and to develop myself with new knowledge.

EDUCATION

Bilkent University, Ankara, Turkey.

Started **MSc** in Physical Chemistry in September 2016.

Supervisor: Assoc. Prof. Dr. Emrah Özensoy

Eindhoven University of Technology, Eindhoven, the Netherlands.

Guest Researcher in Physical Chemistry group of Chemical Engineering and Chemistry Department, 2015 September – 2016 August. (Supervisors: Dr. Catarina Esteves and Prof. Remco Tuinier)

Research Project: "Polymers and Colloids in Deep Eutectic Solvents (DES)".

Bilkent University, Ankara, Turkey.

BSc in Chemistry, **3.35/4.00**, 2011 – 2015. Full Scholarship (Tuition).

Senior Project 1: "Hydrogen Peroxide synthesis in PET water bottles by using MechanoChemistry" (Supervisor: Dr. Bilge Baytekin) (2014-2015 Fall Semester)

Senior Project 2: "Electrostatic discharge of Teflon beads by using Photo Induced Electron Transfer (PeT) mechanism" (Supervisor: Dr. Bilge Baytekin) (2014-2015 Spring Semester)

TED Ankara Collage Private High School, Ankara, Turkey.

- High School (English).
- IB Student, 2007 – 2009.

RESEARCH EXPERIENCE

Bilkent University, MSc, Ankara, Turkey (2016 September-present):

- Ultra High Vacuum (UHV) Systems.
- Analyses of surface desorbed molecules by Mass Spectroscopy (TPD), XPS, LEED.

Eindhoven University of Technology, Eindhoven, The Netherlands (September 2015 – August 2016):

- Preparation and Characterization of Deep Eutectic Solvents (DES)
- Synthesis of various Polymers and Block Copolymers.
- Analyses on solvation of synthesized polymers in prepared DESs.

Bilkent University, BSc, Ankara, Turkey (2014-2015):

- Systematic investigation of Hydrogen Peroxide in crushed PET bottles by UV-Vis Spectroscopy
- Investigation of absorption and emission profiles of various organic dyes
- Designed “a mechanical crusher” by using SolidWorks then built it for Senior Project 1
- Designed and built a UV lamp system for Senior Project 2

INSTRUMENTATION

Hands-on experience in characterization techniques;

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|------------------------------|--|-----------------------|
| • FT-IR Spectroscopy, | • Electrometer | • XPS |
| • UV-Visible Spectroscopy, | • Atomic Absorbtion Spectroscopy (AAS) | • LEED |
| • Fluorescence Spectroscopy, | • Flame Photometry | • Mass Spectroscopy |
| • Gas Chromatography | | • Gel Electrophoresis |

INTERNSHIP

Turkish Petroleum, Research Center (June – July 2014)

Production Technology Department,

- Quality control of petroleum and petroleum products

Geochemistry Department,

- Characterization of geological samples by various spectroscopic techniques

CONFERENCES & SCIENTIFIC ACTIVITIES

Conducted experiments on SOLEIL-Synchrotron facility, Paris, France (September 2017):

- Performed EXAFS and XANES experiments on “SAMBA” beamline.
- Selected for “CALIPSOplus” program, a scholarship for synchrotron studies.

Participated in “CHAINS” conference, Veldhoven, the Netherlands (December 2015)

Participated in “Dutch Polymer Days (DPD)”, Lunteren, the Netherlands (March 2016)

HONORS & AWARDS

- Full Scholarship from Bilkent University for Graduate Study, 2016 September – present.
- High Honor for 4 semesters, Honor for 3 semesters, Department of Chemistry, Bilkent University, 2011-2015.
- Full Scholarship from Bilkent University for Undergraduate Study (Tuition), 2011-2015.

LANGUAGES

- Turkish (Native)
- English (Advanced)
- German (Intermediate)
- Arabic (Basic)

SOFTWARES

- Microsoft Office; Word, Excel, PowerPoint (Intermediate)
- MatLab (Basic)
- OriginLab (Intermediate)
- SolidWorks (Basic)
- Java (Basic)

INTERESTS AND ACTIVITIES

- **Sports**, Basketball player in Türk Telekom (2002-2010)
- **Music**, Playing Ud and Bağlama
- **Philosophy**, Selected for a special course (HUM-331) for Honors students (2014-2015 Fall Semester)

REFERENCES

Available upon request