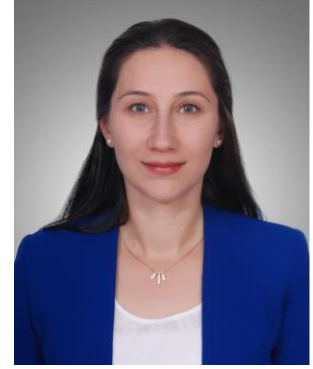


E. DENIZ TEKIN

CURRICULUM VITAE

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CURRENT STATUS & ADDRESS

Title Assoc. Prof.
Address University of Turkish Aeronautical Association,
Department of Computer Engineering
Ankara, Turkey 06790

EDUCATION

Post-Doc	Bilkent University, UNAM	2011-2012
PhD	METU, Physics	2002-2010
	UC-Davis, Chem. Eng. & Material Sci.	2007-2008
BSc	KSU, Physics	1998-2002

WORKING EXPERIENCES

Researcher	Bilkent University, UNAM	2016-2017
Assist. Prof.	UTAA, Flight Training	2011-2016
Res. Assist.	METU, Physics	2002-2010

FELLOWSHIPS AND GRANTS

TUBITAK ⁺ , 3501 CAREER Grant (Principal Investigator)	2012-2014
TUBITAK ⁺ , COST Grant (Researcher)	2012-2014
Exchange PhD Student Fellowship*	2007-2008

(*Supported by University of California-Davis and METU)

(⁺ The Scientific and Technological Research Council of Turkey)

TEACHING EXPERIENCE

UTAA, Ankara, Turkey

- BIO 101 (Introduction to Molecular Biology) Fall 2018
- PHY 101 (Mechanics) Fall 2011-2015
Summer 2018
- PHY 102 (Electricity & Magnetism) Spring 2012-2016
Fall 2018, Spring 2019
- FLT 300 (Special Topics in Aviation) Spring 2014-2015
- FLT 123 (Human Factors in Aviation) Fall 2015

METU, Ankara, Turkey

- PHY 105-Lab (Mechanics Laboratory) Fall 2003-2010
- PHY 102 (Electricity & Magnetism) Spring 2004-2010

RESEARCH EXPERIENCE

- *Investigation of Small Bioactive Molecules* using Molecular Mechanics, Semi-empirical methods (AM1 and PM3), Ab-initio (Restricted Hartree Fock), and Density Functional Theory (DFT).
- *Protein Folding Problem* using Molecular Dynamics method.
- *Self-Assembly Mechanism of Peptide Amphiphiles* using Molecular Dynamics method.
- *Structural and Electronic Properties of Alkaline Phosphatase Mimetic Peptides* using Molecular Mechanics, Semi-empirical methods (AM1 and PM3), Ab-initio (Restricted Hartree Fock), and Density Functional Theory (DFT).

Doctoral Student Advised

- Tuba Kilinc, “*Investigation of Protein Folding Problem using Molecular Dynamics Methods*”, 2013. (Now Asst. Prof. at Erzincan University, Turkey.)

PROGRAMMING EXPERIENCES

For Quantum Chemical Calculations: HyperChem, GAUSSIAN 03-09 and GAUSSVIEW

For Molecular Dynamics Calculations: GROMACS and Visual Molecular Dynamics (VMD)

Programming Languages: MATLAB, PYTHON

Source: TRUBA (TUBITAK ULAKBIM High Performance and Grid Computing Center)

(Note that after 2006, my last name was changed to Tekin from Calisir.)

Journal Publications

1. A. Dana, A. B. Tekinay, **E. D. Tekin**, *A Comparison of Peptide Amphiphile Nanofiber Macromolecular Assembly Strategies*, (accepted for publication at *The European Physical Journal E*).
2. F. B. Dikecoglu, A. E. Topal, A. D. Ozkan, **E. D. Tekin**, A. B. Tekinay, M. O. Guler, A. Dana, Force and Time Dependent Self-assembly, Disruption and Self-healing of Supramolecular Peptide Amphiphile Nanofiber, *Nanotechnology*, 29, 285701 (2018).
3. A. D. Ozkan, A. B. Tekinay, M. O. Guler, and **E. D. Tekin**, Effects of Temperature, pH and Counterions on the Stability of Peptide Amphiphile Nanofiber Structures, *RSC Advances*, 6, 104201 (2016).
4. **E. D. Tekin**, Molecular dynamics simulations of self-assembled peptide amphiphile based cylindrical nanofibers, *RSC Advances*, 5, 66582 (2015).
5. G. Gulcihan, I. C. Yasa, O. Ustahüseyin, **E. D. Tekin**, A. Tekinay, M: Guler, Alkaline Phosphatase-Mimicking Peptide Nanofibers for Osteogenic Differentiation, *Biomacromolecules*, 16, 2198 (2015).
6. **E. D. Tekin**, Odd–even effect in the potential energy of the self-assembled peptide amphiphiles, *Chemical Physics Letters*, 614, 204 (2014).
7. G. Cinar, H. Ceylan, M. Urel, T. S. Erkal, **E. D. Tekin**, A. B. Tekinay, A. Dana, M. O. Guler, Amyloid Inspired Self-Assembled Peptide Nanofibers, *Biomacromolecules*, 13, 3377 (2012).
8. A. Maass, **E. D. Tekin**, A. Schuller, A. Palazoglu, D. Reith, R. Faller, Folding and unfolding characteristics of short beta strand peptides under different environmental conditions and starting configurations, *Biochimica et Biophysica Acta (BBA)-Proteins & Proteomics*, 1804, 2003 (2010).
9. **E. D. Tekin** and S. Erkok, Structural and electronic features of the ubiquinone and ubiquinol molecules: Molecular dynamics and quantum chemical treatments, *Molecular Simulation*, 36, 763 (2010).

10. **E. D. C. Tekin**, F. Erkoç, I. Yıldız, S. Erkoç, Quantum chemical calculations of warfarin sodium, warfarin and its metabolites, *Communations in Computational Physics*, 4, 161 (2008).
11. N. Chakraborti, R. Jayakanth, S. Das, **E. D. Calisir**, S. Erkoç, Evolutionary and genetic algorithms applied to Li⁺-C systems: Calculations using differential evolution and particle swarm algorithm, *Journal of Phase Equilibria and Diffusion*, 28, 140 (2007).
12. **E. D. Calisir**, O. B. Malcıoğlu, S. Erkoç, Density functional theory investigation of 1-chloroborepin and propargyl benzene planar molecules, *International Journal of Pure and Applied Chemistry*, 1, 509 (2006).
13. H. Yildirim, A. Kara, T. S. Rahman, **E. D. Calisir**, S. Erkoç, M. Selvi, F. Erkoç, Theoretical comparative study of the structure, dynamics and electronic properties of two Allyl molecules: Allicin, Methyl Propyl Disulfide (MPD) and Allyl Methyl Sulfide (AMS), *International Journal of Pure and Applied Chemistry*, 1, 171 (2006).
14. **E. D. Calisir**, S. Erkoç, H. Yildirim, A. Kara, T. S. Rahman, M. Selvi, F. Erkoç, Theoretical comparative study of the structure, dynamics and electronic properties of two Allyl molecules: S-allyl cysteine (SAC) and S-allyl mercaptocysteine (SAMC), *International Journal of Pure and Applied Chemistry*, 1, 47, (2006).
15. S. Erkoç, H. Tezcan, **E. D. Calisir**, F. Erkoç, Synthesis of bis-formazan molecule and quantum chemical calculations, *International Journal of Pure and Applied Chemistry*, 1, 37 (2006).
16. **E. D. Calisir** and S. Erkoç, Structural, electronic and QSAR properties of the cyfluthrin molecule:: A theoretical AM1 and PM3 treatment, *International Journal of Modern Physics C*, 17, 1391(2006).
17. **E. D. Calisir** and S. Erkoç, Structural and electronic properties of dipropyl sulfide:A theoretical investigation, *International Journal of Modern Physics C*, 17, 1179(2006).

Journal Papers in Review/Progress

1. M. Calisir, **E. D Tekin**, Investigation of Human Beta-Defensin 1-2-3 in human saliva by Molecular Dynamics, (under review).

PRESENTATIONS AND INVITED LECTURES

1. *Quantum Chemical Calculations*, Faller's Research Group, UC-Davis, CA, USA, 2007.
2. *Force Fields for Water*, Faller's Research Group, UC-Davis, CA, USA, 2008.
3. *Quantum Chemical Calculations for small molecules*, Ankara University, Ankara, TURKEY, 2010.
4. *Theory and Applications of Quantum Chemical Calculations and Molecular Dynamics Calculations*, Gazi University, Ankara, TURKEY, 2010.
5. *Short Review of the Quantum Calculations and Application on Dipropyl Sulfide Molecule*, UNAM, Bilkent University, Ankara, TURKEY, 2011.

PROFESSIONAL TRAINING

Seminars and Workshops

1. **E. Deniz Tekin**, *Stability of Peptide Amphiphile Nanofibers under Different Environmental Conditions*, 34th Turkish Physical Society (TFD 34), September 05-09, 2018, Bodrum, Turkey (oral presentation).
2. **E. Deniz Tekin**, *Self-Assembling Peptide Amphiphiles with Molecular Dynamics Simulations*, From Computational Biophysics to Systems Biology (CBSB16), May 23-25, 2016 Ankara, Turkey (oral presentation).
3. **Goksu Cinar, E. Deniz Tekin**, Mustafa O. Guler, *Characterization of self-assembly of peptides & self-assembled peptide nanonetworks*, 248th America Chemical Society National Meeting, August 10-14, 2014, San Francisco, CA, USA (oral and poster presentation).
4. **E. Deniz Tekin**, *Molecular dynamics simulations of self-assembled peptide amphiphiles*, 248th America Chemical Society National Meeting, August 10-14, 2014, San Francisco, CA, USA (poster presentation).

5. Gulcihan Gulseren, I. Ceren Garip, Oya Ustahuseyin, **E. Deniz Tekin**, Ayse B. Tekinay, and Mustafa O. Guler, *Self-Assembled Peptide Nanostructures Mimic Alkaline Phosphatase Activity*, Unam Nanoday 2014, May 26, 2014, Bilkent University, Ankara, Turkey (poster presentation).
6. **E. Deniz Tekin**, *Investigation of self-assembled peptide amphiphiles with molecular dynamics simulations*, 10th Nanoscience and Nanotechnology Congress (NANOTR X), June 17-21, 2014, Yeditepe University, İstanbul, Turkey (poster presentation).
7. Tuba Kilinc, **Emine Deniz Tekin** and Abdulmecit Turut, *Understanding of $A\beta_{16-22}$ and $A\beta_{17-21}$ Peptides Aggregation by Molecular Dynamics Simulations*, 10th Nanoscience and Nanotechnology Congress (NANOTR X), June 17-21, 2014, Yeditepe University, İstanbul, Turkey (poster presentation).
8. Tuba Kilinc, **Emine Deniz Tekin** and Abdulmecit Turut, *Amyloid Peptide Aggregation of $A\beta_{16-22}$ And $A\beta_{17-21}$ Using Molecular Dynamics Simulations*, 9th Nanobilim ve Nanoteknoloji Kongresi (NANOTR IX), 24-28 Haziran, 2013, Atatürk University, Erzurum, Türkiye (poster presentation).
9. Goksu Cinar, Hakan Ceylan, Mustafa Urel, Turan Selman Erkal, **Emine Deniz Tekin**, Ayse Begum Tekinay, Aykutlu Dana, and Mustafa Ozgur Guler, *Amyloid Inspired Self-Assembled Peptide Nanofibers*, 246th American Chemical Society National Meeting, September 8-12, 2013, Indianapolis, IN, USA (oral presentation).
10. Göksu Çinar, Hakan Ceylan, Mustafa Ürel, Turan Selman Erkal, Aykutlu Dana, **Emine Deniz Tekin**, Ayse B. Tekinay, and Mustafa O. Guler, *Mechanical Properties of Self-Assembling Peptide Hydrogels and Their Effects on Cell Behaviors*, 8th Nanoscience and Nanotechnology Congress (NANOTR VIII), June 25-29, 2012, Hacettepe University, Ankara, Turkey (poster).
11. Tuba Kılınç, Abdulmecit Türüt, **Emine Deniz Tekin**, *Molecular Dynamics Simulations of $A\beta_{(16-22)}$ Peptides Aggregation*, 8th Nanoscience and Nanotechnology Congress (NANOTR VIII), June 25-29, 2012, Hacettepe University, Ankara, Turkey (poster).

12. Tuba Kılınç, **Emine Deniz Tekin**, Abdülmecit Türüt, *A Molecular Dynamics Approach to the Aggregation of Amyloid A β ₍₁₇₋₂₁₎ Peptides*, Chemical Physics X, October 10-12, 2012, TOBB University of Economics & Technology, Ankara, Turkey (poster).
13. **E.D. Calisir**, S. Erkoc, *Structural, electronic and QSAR properties of the cyflutrin molecule: A theoretical AM1 and PM3 treatment*, Third Humboldt Conference on Computational Chemistry (CompChem-2006), June 24-28, 2006, Varna, Bulgaria, Book of Abstracts, p. 110, (poster).
14. **E. D. Calisir**, S. Erkoc, H. Yildirim, A. Kara, T. S. Rahman, M. Selvi, F. Erkoc, *Theoretical Comparative Study of the Structure, Dynamics and Electronic Properties of Five Ally Molecules: Allicin, Methyl Propyl Disulfide (MPD), Allyl Methyl Sulfide (AMS), S-allyl cysteine (SAC) and S-allyl mercaptocysteine (SAMC)*, E2006 APS March Meeting, March 13-17, 2006; Baltimore, MD, Abstract: C1.00067 (poster).

PROFESSIONAL AFFILIATIONS

American Chemical Society, 2014-Present

Turkish Physical Society, 2016-Present

COMMUNITY SERVICE

Organization

Co-organizer of Festschrift conference for Prof. Dr. Sakir Erkoc

(65. Doğum Günü Şerefine Şakir Erkoç Çalıştayı: “Atomlar, Moleküller ve Hayat”)

(METU, Department of Physics, October 7, 2013, Ankara, Turkey.)

Co-organizer of Festschrift conference for Prof. Dr. Sakir Erkoc

(70. Doğum Günü Onuruna Şakir Erkoç Çalıştayı: “Bilime Adanan Bir Ömür”)

(METU, Department of Physics, August 3, 2018, Ankara, Turkey.)

ADMINISTRATIVE DUTIES

- UTTA, Head of the Coordination Unit of Common Core Courses
(April 2018-)
- UTTA, Founding Head of the Department of Mechatronics Engineering
(February 2012-September 2012)
- UTTA, Head of the Section of Mechanical and Aeronautical Department
(February 2014 to October 2014)
- UTTA, Head of the Coordination Unit of Common Core Courses
(December 2013-February 2014)
- UTTA, Head of the Curriculum and Examination Committee
(November 2013- February 2014)
- UTTA, Physics Course Coordinator
(September 2011-September 2014)
- UTTA, Built the Fresman Physics Labs
(July 2012)