

AMIR WAND – CURRICULUM VITAE

Current Position: Ph.D. Student, Research Assistant, and Teaching Assistant

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Personal Info

Born February 27, 1982; Married to Yifat; Lives in 14 Carmon St., Bet Ha'Kerem, Jerusalem 9630829, Israel.
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Education

2010-Present **Ph.D. Physical Chemistry**, The Hebrew University of Jerusalem (Expected: 12/2013)

Advisor: Prof. Sanford (Sandy) Ruhman.

Thesis Title: "Investigation of Photobiology with Advanced Ultrafast Spectroscopy".

2008-2009 **M.Sc. Physical Chemistry**, The Hebrew University of Jerusalem (*Summa Cum Laude*)

Advisor: Prof. Sanford (Sandy) Ruhman.

Thesis Title: "Chirp Effects on Impulsive Vibrational Spectroscopy: A Multimode Approach".

2005-2007 **B.Sc. Chemistry and Physics**, The Hebrew University of Jerusalem (*Summa Cum Laude*)

In the course of "Amirim" honors program. Final Project: "Coherent Control Over Vibrational Wave Packets in Large Polyatomics in Solution" (Graded Excellent; Mentors: Prof. Sandy Ruhman and Prof. Ronnie Kosloff).

Publications

9 papers in peer-reviewed journals, 7 of which as leading/co-leading author (see List of Publications).

Research Profile, Expertise & Skills

Implementation of advanced ultrafast spectroscopy techniques to study light-induced physicochemical processes, in particular of photo-biological systems, such as retinal proteins.

- Operation of lasers (CW: He;Ne/DPSS/lamp-pumped, Q-switched: Nd;doped/DPSS, mode-locked: Ti:Sapph), building & using of complex optical systems, implementing non-linear optics techniques.
- Using and manipulating ultrashort/ultrafast (femtosecond) laser beams in the UV/VIS/NIR.
- Working with different light-detectors and cameras (CCD, diode-arrays), with hyperspectral detection (using spectrographs), in the VIS and NIR spectral regions.
- Hardware implementation and data analysis using programming in Labview & Matlab.

Honors, Prizes and Scholarships

2011-Present	Adams Fellowship for Ph.D. Students
2011	Sarah Wolf's Award for Outstanding Physical Chemistry Ph.D. Student (In memory of the late Prof. Chava Lifshitz)
2009- 2011	Noted Excellent Teaching Assistant (consecutive three years)
2009	M.Sc. Summa Cum Laude
2009	Best Poster Award (3 rd place in the Faculty of Sciences, The Hebrew University)
2009	Wolf Foundation Prize for M.Sc. Students
2009	Rector's Honors Award for M.Sc. Students
2008-2009	Dean's Honors Award for M.Sc. Students
2007	B.Sc. Summa Cum Laude
2005-2007	Dean's Honors List for B.Sc. Students
2006	Rector's Honors Award for B.Sc. Students
2005-2007	"Amirim" Honors Class (Studies & Full Tuition Scholarship)

Teaching Experience

2010-Present	Lab Instructor, Institute of Chemistry, The Hebrew University; "Physical Chemistry Lab" (mandatory laboratory for 2 nd year chemistry students). Leading the instructors' crew (10-12 people) as supervisor & coordinator since 2011.
2008-2011	Teaching Assistant, Institute of Chemistry, The Hebrew University; "Physical Chemistry A: Kinetics" (mandatory course for 1 st year chemistry students). Noted Excellent TA consecutively in 2009, 2010, 2011.
2007	"Lachman" School, Jerusalem. Teaching for final high school exam ("Bagrut") in Physics (5 points),

Military Service

2001-2004	Full mandatory service in the Technological Unit of the Intelligence Corps (IDF); team leader and shift manager (2002, 2003 – Awards for Excellent Contributions).
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Languages

Hebrew - Native	English - Fluent (full professional proficiency)	Arabic - Basic/Conversant
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