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## EDUCATION

- 10/1999–10/2003: Graduate study, Department of Chemistry, University of Warsaw, Poland. Ph.D. in Chemistry (with honors), 05/2004. Dissertation title: *Regularization of the Coulomb Potential and the Convergence of Perturbation Theory for Intermolecular Forces*, advisor: Prof. Bogumil Jeziorski.
- 10/1994–09/1999: Undergraduate study, University of Warsaw, Poland. M.Sc. in Chemistry (with honors), 09/1999. Thesis title: *On the Applicability of the Symmetry-Adapted Perturbation Approach to Interactions of Open-Shell Systems*, advisor: Prof. Bogumil Jeziorski.

## PROFESSIONAL EXPERIENCE

- 01/2011–present: Assistant Professor of Physical Chemistry, Department of Chemistry and Biochemistry, Auburn University.
- 11/2003–12/2010: Postdoctoral researcher with Prof. Krzysztof Szalewicz, Department of Physics and Astronomy, University of Delaware.
- 10/1999–10/2003: Graduate student and teaching assistant, Department of Chemistry, University of Warsaw, Poland.
- 06/2000–09/2000, 04/2002–07/2002: Short-term researcher with Prof. Krzysztof Szalewicz, Department of Physics and Astronomy, University of Delaware.
- 03/1999–06/1999: Exchange research student, Institute of Theoretical Chemistry, University of Nijmegen, The Netherlands. Supervisor: Prof. Ad van der Avoird.

## PUBLICATIONS

Coauthor of 25 published papers and one submitted paper. Presented 11 talks and posters at conferences.

## FUNDING

- K. Patkowski, Auburn University startup funding, Jan 1, 2011 – May 31, 2014, \$150,000.
- K. Patkowski, *Accurate Ab Initio Studies of Hydrocarbon Physisorption on Carbon Nanotubes*, American Chemical Society Petroleum Research Fund, Jan 1, 2012 – Aug 31, 2014, \$100,000.
- J. Dong (PI), R. Hansen, S. Santos, K. Patkowski, E. Thomas Jr. (co-PIs), *SPIRIT: Storing Petabytes of Information for Research Into Tomorrow's science*, Auburn University Intramural Grants Program, Feb 1, 2012 – Jan 31, 2013, \$150,000.

## AWARDS

- 2000: Award of the Polish Chemical Society for the best M.Sc. thesis in chemistry.
- 1999: Erasmus fellowship, University of Nijmegen, The Netherlands.
- 1994–1999: Scholarship of the Polish Ministry of Education.
- 1994: Bronze Medal, 26<sup>th</sup> International Chemistry Olympiad, Oslo, Norway.
- 1994: Bronze Medal, 35<sup>th</sup> International Mathematical Olympiad, Hong Kong.
- 1994: Participant, London International Youth Science Forum, London, UK.
- 1990–1994: Scholarship of the Polish Children's Fund.

## SCIENTIFIC INTERESTS

Theory of intermolecular interactions, symmetry-adapted perturbation theory, high-level *ab initio* electronic structure methods, potentials of physical adsorption.

## TEACHING EXPERIENCE

- Courses taught: Survey of Physical Chemistry, Physical Chemistry II, Quantum and Statistical Mechanics (Auburn), Introductory Physics (Delaware).
- Discussion sections taught (Warsaw): Quantum Chemistry (basic and advanced), Numerical Methods, Mathematics for Chemists.
- Taught various chemistry and math classes for scientifically gifted middle- and high-school students at Polish Children's Fund.

## OTHER SCIENTIFIC ACTIVITIES

- one of the main authors of the SAPT program<sup>1</sup>, involved in programming, testing, documentation, and technical support
- proposal reviewer for the American Chemical Society Petroleum Research Fund
- reviewer for *Journal of Chemical Physics*, *Journal of Chemical Theory and Computation*, *Journal of Physical Chemistry*, and *Computational and Theoretical Chemistry*

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<sup>1</sup><http://www.physics.udel.edu/~szalewic/SAPT/SAPT.html>