

PERSONAL INFORMATION

Ana-Nicoleta Bondar

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Sex Female | Date of birth 11/04/1974 | Nationality Romanian

PROFESSIONAL EXPERIENCE
AND RELEVANT PAST
POSITIONS

September 1998-November 1999

Referent

University of Bucharest, Bucharest, Romania

- Referent

January 2000-June 2000

Research Assistant

Interdisciplinary Center for Scientific Computing (IWR), University of Heidelberg, Heidelberg, Germany

- Research

July 2000-June 2003

Doctoral Candidate/ PhD student

German Cancer Research Center Heidelberg, DKFZ, Heidelberg, Germany

- Doctoral Researcher

July 2003-September 2004

Scientific Employee and Graduate Student

Interdisciplinary Center for Scientific Computing (IWR), University of Heidelberg, Heidelberg, Germany

- Doctoral research

October 2004-October 2006

Scientific Employee and Post-Doctoral Fellow

Interdisciplinary Center for Scientific Computing (IWR), University of Heidelberg, Heidelberg, Germany

- Post-doctoral research

November 2006-September 2010

Assistant Project Scientist

University of California, Irvine, Department of Physiology and Biophysics, Irvine, CA United States

- Advanced Post-doctoral research. Appointed as Assistant Project Scientist Step I in November 2006, merit increase to Step II in July 2008, accelerated merit increase to Step IV in July 2010

October 2010-November 2014

Junior Professor W1

Freie Universität Berlin, Department of Physics, Berlin, Germany

- Research and teaching, independent group leader. Positive mid-term evaluation in 2013

December 2014-November 2019

Dahlem International Network Professorship, W2

Freie Universität Berlin, Department of Physics, Berlin, Germany

- Research and teaching, independent group leader

December 2019-March 2021

Guest Professor

Freie Universität Berlin, Department of Physics, Berlin, Germany



April 2021-

Associated member, Forschungszentrum Jülich, Institute for Computational Biomedicine

April 2021-

Professor Univ. Dr., University of Bucharest, Faculty of Physics

EDUCATION AND DEGREES

2020

Habilitation

Freie Universität Berlin, Department of Physics
Berlin, Germany

- Habilitation in Theoretical Physics

2004

Dr. rer. Nat. Magna cum Laude

Ruprecht Karl University Heidelberg
Heidelberg, Germany

- Doctoral research was in computational biophysics

1997-1999

Diploma of Advanced Studies

'Alexandru Ioan Cuza' University of Iasi, Faculty of Physics
Iasi, Romania

- Advanced studies in physics, specialization non-linearity and self-organization in complex systems

1992-1997

Diploma in Physics

'Alexandru Ioan Cuza' University of Iasi, Faculty of Physics
Iasi, Romania

- Diploma (undergraduate) studies in physics

1988-1992

Diploma of School-Leaving Certificate (Bacalaureat)

'Petru Rares' Theoretical High School of Piatra Neamt
Piatra Neamt, Romania

- High school studies

RESEARCH, DEVELOPMENT,
AND INNOVATION PROJECTS

2025-2028

PI within the Doctoral Network WATER recently approved by the European Commission/Marie Sklodowska Curie Actions. Funding for the University of Bucharest will support one doctoral scholar.

2023-2027

Co-PI (sub-contractor) on National Institutes of Health (NIH) project. 'Structure and function of direct delivery peptides'

2019-2022

PI within the Innovative Training Network (ITN) PROTON – proton and proton-coupled transport', European Commission/Marie Sklodowska Curie Actions, EUR 253.000

2016-2019

PI within the project 'Photoswitchable lipids for optical control of mechanosensitive ion channels', German Science Research Foundation (DFG) Priority Program SPP1926 Next Generation

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Optogenetics, BO4088/1-1 EUR 131.750 (project with three PIs, each with their budget)

2013-2020

PI of Project C4 ,Coupling between protein, water, and protonation dynamics in channelrhodopsin and photosystem II', German Science Research Foundation Collaborative Research Project SFB1078, Protonation Dynamics in Protein Function, EUR (337.600+309.600)

AWARDS, RESEARCH STAYS, RECOGNITION, RESEARCH ACCOMPLISHMENTS

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- 03.03-24.03.2023 International Researcher at the Future Value Creation Center (FV-CRC), Graduate School of Informatics, Nagoya University, Nagoya, Japan
 - 25.10-07.11.2022 Research visit at the University of Tokyo, Institute for Solid State Physics, Functional Materials Group, supported by the Alexander von Humboldt CONNECT Follow-up Program for Participants of Frontiers of Research Symposia, Kashiwa, Japan
 - 27.09.2019-10.10.2019 Tokyo University, Institute for Solid State Physics, Tokyo, Japan, Supported by the Follow-Up Program of the Japan Society for the Promotion of Science (FoS) Symposium
 - 26.08.2018-15.09.2018 Nagoya University, School of Science, Department of Physics, Nagoya, Japan, supported by JSPS-BRIDGE fellowship (06.09-09.09: symposium in Kyoto)
 - 06.11.2012-18.11.2012 University of Granada, Spain, Department of Computer Science and Artificial Intelligence, Supported by GENIL-SSV Fellowship
 - 20 days, 2006 Nagoya University, School of Science, Department of Physics, Nagoya, Japan, supported by JSPS short-term fellowship.
 - Selected invited talks CECAM workshop Membranes and membrane proteins in healthy neurons and disease PISA 2025; CECAM workshop on GPCRs Lugano 2024; PROFOUND Network workshop Leuven 2024; Biophysical Society Conference on Proton Reactions Tahoe 2023; International Conference on Retinal Proteins, Switzerland 2024; 9th European Joint Theory/Experiment Meeting on Membranes, Debrecen 2024; Theory and Applications of Computational Chemistry TACC Sapporo 2023; KINSIS Symposium Health Meets Energy 2023 Kiel; Telluride Science Workshop Protons in Biology, Telluride, Colorado 2024; Gordon Conference on Computational Chemistry Barcelona 2022; Telluride Science Workshop Protein Electrostatics 2022 (virtual attendance); PACIFICHEM Symposium Chemistry in Rhodopsins 2021 (virtual); National Biophysics Conference Romania, CNB, 2020, online; International Symposium on Cell Surface Macromolecules, Pune, India, 2020; CECAM Workshop Frontiers in Multiscale Modeling of Photoreceptor Proteins, Tel Aviv, 2019; 18th International Conference on Retinal Proteins, Hockley Valley Resort, Ontario, Canada, 2018; International Workshop on Lipid Membranes, University of Helsinki, Finland, 2018; Telluride Workshop on Proton Transfers in Biology, Telluride, Colorado, USA, 2018, 2016; Telluride Workshop on Protein Electrostatics, Telluride, Colorado, USA, 2017; International Symposium on the Physics of Life, on the occasion of Prof. Tsutomu Kouyama's retirement, University of Nagoya, Japan, 2017; Meeting 'Proton transfer in complex environments' on the occasion of Prof. Menachem Gutman's 80th Birthday, University of Tel Aviv, Israel; Kick-off Symposium of the Frontier Research Institute for Materials Science, Nagoya Institute of Technology, Nagoya, Japan, 2016; Pacificchem 2015, Symposium on Chemistry and Applications of Retinal Proteins, Honolulu, Hawaii, USA, 2015
 - 2023-2025 Biophysical Society Ambassador for Romania, 2023-2025
 - 2022 Distinction from the Rector's Office of the University of Bucharest (for 2022 research)
 - 2020 Invited, on behalf of the Ambassador of Romania in Berlin, to join the work group on Covid-related response

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