

# Curriculum Vitae

## PERSONAL DATA

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Name: **Gergely NAGY**

Nationality: Hungarian

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**Ph.D. in Physics**  
(Physics for the Life Sciences)  
MSc in Physics  
(Biophysics)



## EMPLOYMENT

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**Senior SANS Instrument Scientist at the EQ-SANS beamline at the Spallation Neutron Source**

Neutron Scattering Division, Oak Ridge National Laboratory, Oak Ridge, USA

## PRIOR EMPLOYMENT

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Wigner Research Center for Physics, Budapest, Hungary

Szeged Biological Research Center, Szeged, Hungary

European Spallation Source, Lund, Sweden

Paul Scherrer Institute, Villigen – PSI, Switzerland

Institut Laue-Langevin, Grenoble, France

## PRESENT and PAST RESEARCH ACTIVITIES

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Structure and Dynamics of Photosynthetic Membranes as Revealed by Neutron Scattering

Neutron Biophysics and Neutron Instrumentation

Instrument development for the European Spallation Source

SANS instrument responsible

Structure Property Correlations of Ion-Containing Polymers for Fuel Cells

Long-term Videomicroscopic Study of Nucleus Movement and the Force Influences of the Cells Developed on Their Surroundings

## EDUCATION

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**Doctoral studies in physics** (physics for the life sciences program), Université de Grenoble, École Doctorale de Physique, Grenoble, France ('cotutelle' program with the Eötvös Loránd University)

**Doctoral studies in physics** (statistical physics, biological physics and physics of quantum systems program) Eötvös Loránd University, Doctoral School in Physics, Budapest, Hungary

**Complementary studies in physics**, Eötvös József Collegium, Budapest, Hungary

**BSc and MSc in physics**, specialization in biophysics, Eötvös Loránd University, Budapest, Hungary

## PUBLICATIONS

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Google Scholar <https://scholar.google.ch/citations?user=sB8HbsAAAAJ&hl=hu>

ORCID <https://orcid.org/0000-0003-2742-0198>

## LANGUAGE COMPETENCES

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English – fluent, Spanish – intermediate, French – intermediate, German – beginner, Hungarian – native

## SKILLS PROFILE

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- Scientific**
- Neutron scattering – theory, measuring techniques, applications in basic biology
  - Biophysics and regulation of photosynthesis – structure and functions of thylakoid membranes
  - Structure and function of radiation grafted fuel cell membranes
  - Optical spectroscopic techniques, applications in photosynthesis research
  - Data processing, mathematical modelling, programming (Matlab, Python, Origin)
  - Preparative techniques – photosynthesis
  - Instrument responsible and local contact for hard and soft condensed matter SANS experiments
- Science management**
- Coordinating experiments in large international collaborative projects
  - Writing grant proposals and beamline applications, managing projects
  - Supervising students, participation in neutron scattering education
- Instrumentation**
- Instrument design and development, instrument simulation with McStas for pulsed sources
  - Instrument maintenance

## COMMITTEE MEMBERSHIP

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- 2014 – present CERIC-ERIC (Central European Research Infrastructure Consortium) Proposal Review Panel
- 2020 – present Member of the reviewer board of the International Journal of Molecular Sciences
- 2020 – present Review Editor on the Editorial Board of Plant Physiology (specialty section of Frontiers in Physiology and Frontiers in Plant Science)

## AWARDS & SCHOLARSHIPS

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- 2019 János Bolyai Research Scholarship of the Hungarian Academy of Sciences
- 2019 Scholarship of ÚNKP-19-4 New Natl. Excellence Program of the Ministry for Innov. and Tech. (Hungary)
- 2016 Winner of the Swiss National Science Foundation Advanced Postdoc.Mobility Fellowship
- 2016 Young Talents Award – “Photosynthesis Research for Sustainability” International Conference
- 2013 Ernst Jenő Award of the Hungarian Biophysical Society
- 2009 Winner of the Biochemical Journal Young Investigator Award
- 2007 – 2009 Scholarship of the French Government
- 2003, 2005, 2006 Scholarship of the Hungarian Republic