HRYHORENKO OLEKSANDR

Doctor of Philosophy (Ph.D)

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https://www.hryhorenkolab.com/

EXPERIENCE

Research associate materials science (Accelerator Division)

Institut de Physique Nucléaire d'Orsay, CNRS-IN2P3, Université Paris Saclay

📅 March 2016 – December 2019 📍 Orsay, France

- Data extraction and data wrangling using Python data science tools (Pandas, Numpy, Jupyter Notebooks, Scikit-learn, Matplotlib/Seaborn)
- Hands-on experience in the metallographic polishing: diamond polishing, oxide polishing & chemical-mechanical polishing
- Hands-on experience in the centrifugal barrel polishing (CBP)
- Characterization & Examination of Materials (niobium, stainless steel):
  1. Laser Confocal Microscope
  2. Scanning Electron Microscope (SEM) with EBSD tube
  3. Secondary Ion Mass Spectrometry (SIMS)
  4. Conventional X-Ray Diffraction (XRD) & grazing mode

EDUCATION

Ph.D. in Physics

R&D Cavities and Cryogenics, Institut de Physique Nucléaire d'Orsay, Université Paris Saclay, France

📅 October 2016 – December 2019

Thesis title: Development and Optimization of Mechanical Polishing for Superconducting Accelerating Cavities
M.Sc. in Physics

M2 Grands Instruments, Université Paris Saclay, France

📅 September 2015 – September 2016

Thesis title: Optimization of the Mechanical Polishing of Polycrystalline Niobium for Superconducting Accelerating cavities
M.Sc. in Physics

Applied Physics, V.N. Karazin National University, Ukraine

📅 September 2014– March 2016

Thesis title: The features of electron beam evaporation under surface electron beam formation
B.Sc. in Physics

Applied Physics, V.N. Karazin National University, Ukraine

📅 September 2009 – June 2014

Thesis title: The features of formation radiation in the range of extreme ultraviolet in plasma sources

DRIVING LICENCE

🚗 B1 - Quadricycle, AM - Moped <= 50 cm^3 and B - Light vehicle

TECHNICAL SKILLS

Python | Data Analysis | Latex
HTML5, CSS3, Bootstrap
JavaScript | Grinding | Lapping
Polishing | Specimen Preparation
Optical Microscopy | SQL | SIMS
GXRD & XRD | SEM+EBSD

STRENGTHS

Hard-working | Self-motivated
Detail-oriented | Respectful
Friendly and engaging personality
Results-driven
Familiarity with data analysis
Technical writing
Strong verbal communication skills

LANGUAGES

Ukrainian - Native ●●●●●

Russian - Native ●●●●●

English - Fluent (C2) ●●●●●

French - Intermediate (B1) ●●●○○

CONTRIBUTIONS

2019

SRF19, Dresden, Germany

19th International Conference on RF Superconductivity. Poster presentation.

2018

Thin Films, Padua, Italy

8th International Workshop on Thin Films and New Ideas for Pushing the Limits of RF Superconductivity. Oral presentation.

2018

SLHiPP-8, Uppsala, Sweden

8th Open Collaboration Meeting on Superconducting Linacs for High Power Proton Beams (SLHiPP-8). Oral presentation.

2018

Town Meeting, Groningen, Netherlands

ENSAR2 (European Nuclear Science and Applications Research - 2) Town Meeting. Poster presentation.

2017

Journées Accélérateurs, Roscoff, France

Les Journées Accélérateurs de la SFP. Poster presentation.

PUBLICATIONS

2019

SRF19, Dresden, Germany

"METALLOGRAPHIC POLISHING PATHWAY TO THE FUTURE OF LARGE SCALE SRF FACILITIES". Autors: O. Hryhorenko, C.Z. Antoine, M. Chabot, D. Longuevergne

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2015

Kharkiv, Ukraine

"FEATURES OF ELECTRON BEAM EVAPORATION UNDER SURFACE ELECTRON BEAM FORMATION". Autors: I.N. Misiura, I.A. Girka, N.A. Azarenkov, Ie.V. Borgun, Ya.O. Hrechko, O. Hryhorenko, V.D. Dimitrova, D.L. Ryabchikov,I.N. Sereda, A.F. Tseluyko

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2015

Kharkiv, Ukraine

"OPTIMIZATION OF THE COLLECTING MIRROR LOCATION IN EXTREME ULTRAVIOLET PLASMA SOURCE". Authors:Ie.V. Borgun, N.A. Azarenkov, V.D. Dimitrova, Ya.O. Hrechko, D.L . Ryabchikov, I.N. Sereda, O. Hryhorenko, A.F. Tseluyko

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2015

Kharkiv, Ukraine

"DYNAMICS OF EUV-RADIATION FROM THE PARTIALLY CONTRACTED PLASMA DIODE". Autors: Ya.O. Hrechko, N.A. Azarenkov, V.D. Dimitrova, Ie.V. Borgun, D.L . Ryabchikov, I.N. Sereda, O. Hryhorenko, A.F. Tseluyko