

## POLETAEV ALEKSANDR

### CONTACT INFORMATION

Irkutsk National Research  
Technical University (INRTU)

Lermontov street, 83  
Irkutsk, Russia, 664074

<https://vk.com/sardaukar9>

<https://www.facebook.com/sardaukar9>

Skype: jack3000imps

WeChat: sardaukar9

Email: [sardaukar9@yandex.ru](mailto:sardaukar9@yandex.ru)

Tel.: +79041298187



### DATE OF BIRTH

9th of January 1990

### RESEARCHER ID AND MERICS

h-index: 2 (Scopus), 4 (elibrary.ru)

WoS Researcher ID: A-6440-2014

ScopusID: 56825157000

ORCID: 0000-0002-6448-0045

Elibrary AuthorID: 661202

### EDUCATION

*PhD in Radio Engineering (2019)*

Irkutsk National Research Technical University, Irkutsk, Russia  
*Speciality:* 01.04.03 – Radio physics, Physico-Mathematical  
Sciences

*Thesis:* Coherent detecting of VLF radio signals propagating in  
the Earth-ionosphere waveguide

*Master of Science in Radio Engineering (honors diploma, 2018-  
2019)*

Irkutsk National Research Technical University, Irkutsk, Russia  
*Speciality:* 11.04.01 – Radio Engineering

*Thesis:* Automatization of VLF radio interferometer  
experimental data processing

*Specialist in Electrical Engineering (honors diploma, 2007-  
2012)*

Irkutsk National Research Technical University, Irkutsk, Russia  
*Speciality:* Multichannel telecommunication systems

*Thesis:* Hardware and software system for oblique sounding of  
the ionosphere at VLF range

### RESEARCH FIELDS

The lower ionosphere, Electrical engineering, Radio  
engineering, VLF radiowaves, Digital signal processing, DAQ  
systems programming

## **PROFESSIONAL EXPERIENCE**

Lecturer in the Baikal School of BRICS (September 2019 – Present)

- Conducting lectures and laboratory works with students
- Creating online courses for students' studies

Associate professor in the Department of radioelectronics and telecommunication systems (September 2013 – Present)

- Conducting lectures and laboratory works with students
- Management of students' scientific practice
- Writing workbooks for students' studies

Programmer of the Department of information-measuring systems (September 2012 – Present)

- Data acquisition systems programming
- Writing of patent applications

Technical secretary of Dissertation Council (2014 – 2016)

- Writing instructions for applicants
- Filling and sending applicants' attestation documents to the Department of Education and Science
- Working with normative documents

## **LECTURED COURSES**

Software and computing (English-taught educational program), Information technologies, Radio technical circuits and signals, Radio engineering foundations, Satellite and ground-based radio systems, Network information technologies, Methods and equipment of measurements in telecommunication systems

## **RESEARCH VISITS AND INTERNSHIPS**

*Visiting researcher, Institute of geospheres dynamics of Russian academy of sciences, Moscow, Russia (October 2015)*

One-month research internship with the subject "Analysis of amplitude variations of VLF-LF radiosignals at middle-latitude paths".

## **MAIN PUBLICATIONS**

1. Poletaev A.S., Chensky D.A., Chensky A.G. Radio interferometric location finding of VLF signal transmitters // Journal of Physics: Conference Series, 2019. Vol. 1384, pp. 1-6, doi:10.1088/1742-6596/1384/1/012042.  
<https://iopscience.iop.org/article/10.1088/1742-6596/1384/1/012042>
2. Poletaev A.S., Chensky A.G., Tokmachev D.A. A Method for Central Frequency Phase Variations Measurements of GMSK Modulated Signals // XIV International scientific-technical conference on Actual Problems of Electronic Instrument Engineering (APEIE – 2018), Vol. 1, Part 3, pp. 101 – 104, Novosibirsk, October 2 – 6, 2018.

<https://ieeexplore.ieee.org/document/8545790>

3. Yadrennikova O.V., Poletaev A.S., Chensky A.G. Influence of Solar Flares on VLF Radio Waves Propagation over JJI – Irkutsk Path // XIV International scientific-technical conference on Actual Problems of Electronic Instrument Engineering (APEIE – 2018), Vol. 1, Part 3, pp. 137 – 140, Novosibirsk, October 2 – 6, 2018.  
<https://ieeexplore.ieee.org/document/8545085>
4. Poletaev A.S., Chensky A.G. Tokmachev D.A. The Receive Path of Very Low-Frequency Interferometers // Sensors & Systems, 2018, № 6 (226), pp. 51-60.  
<https://www.elibrary.ru/item.asp?id=35418683>
5. Certificate of state registration of computer software № 2015619500. Program for data acquisition and VLF radiosignal parameters measurements / Poletaev A.S., Grigorev K.A., Chensky A.G.; Right holder Irkutsk National Research Technical University; request 15.06.2015 № 2015615068; registered in Rosreestr 04.09.2015; published. 20.10.2015, Bul. № 10.  
<https://www.elibrary.ru/item.asp?id=26262624>
6. Poletaev A., Chensky A., Grigorev K. Software of the system for long-term ionospheric monitoring in very low frequency range // International Siberian Conference on Control and Communications, Sibcon 2015. - Omsk, May 21-23 2015. - DOI: 10.1109/SIBCON.2015.7147323  
<https://ieeexplore.ieee.org/document/7147323>
7. Tokmachev D.A., Poletaev A.S., Bezrukin A.G., Chenskii A.G., Zasenkov V.E., Gubin N.A. A Synchronization System of Very Low Frequency Interferometers / Instruments and Experimental Techniques, Vol. 57, No. 5, pp. 587–593. Pleiades Publishing, Ltd., 2014.  
<https://link.springer.com/article/10.1134/S0020441214050108>
8. Patent №2524673 RU. A method for measuring variations in the phase shift of the center frequency of signals with minimum shift keying and a device for its implementation / Zasenkov V.E., Poletaev A.S., Chensky A.G., INRTU patent rights, published 10.08.2014.  
<https://www.elibrary.ru/item.asp?id=37451037>

**MAIN SEMINAR  
AND**

Proceedings of the XIV Conference "Interaction of fields and radiation with matter", Institute of Solar-Terrestrial Physics,

**CONFERENCE  
PRESENTATIONS**

Irkutsk, Russia (September 2013, 2015, 2019)

XIV International scientific-technical conference on Actual Problems of Electronic Instrument Engineering (APEIE – 2018)

Proceedings of the 14th International Scientific and Practical Conference "NIDays-2015", Moscow, Russia (November 2015)

International Siberian Conference on Control and Communications "Sibcon-2015", Omsk, Russia (May 2015)

XXIV All-Russian Scientific Conference "Propagation of Radio Waves", Irkutsk, Russia (July 2014)

**HONORS,  
AWARDS,  
FELLOWSHIPS**

Higher education with honors (2012, 2019)

The Russian Federation President's Nominal scholarship (2018-2019)

Vladimir Potanin's Fund Nominal Scholarship (2019)

Irkutsk region Governor's Nominal scholarship (2014, 2018)

The 2<sup>nd</sup> place at INRTU Science festival with the project «VLF interferometer of the ionosphere remote diagnostics» (2018)

LabVIEW CLAD certificate (2016)

The 3<sup>rd</sup> place at INRTU Science festival with the project «Ionosphere monitoring at VLF range» (2012)

**RESEARCH  
GRANTS**

*Ultra-long-wavelength interferometer for long-term ionosphere monitoring using the method of oblique sounding with coherent radiosignals from VLF transmitters*

Russian Foundation of Fundamental Research (2016)

**PROFESSIONAL  
SKILLS**

Languages: English (B2)

Programming: MATLAB, LabVIEW, VBA, R

Self-motivated, accurate, painstaking, assertive, initiative, educable, punctual