Pavel Karateev

Personal Data

Place and Date of Birth:	Russian Federation | 20 September 1988
Address:	33 Stepanova st., Tula, Russian Federation
Phone:	+7 915 7864439
email:	pavel.karateev@ya.ru

Work Experience

Current – Sep. 2013
Research Engineer at Tula State University, Tula
Build and maintain pipelines for collecting and analyzing data, complex data analysis, validation and auditing, qualification-based training

Current – Sep. 2011
Assistant Lecturer at Tula State University, Tula
Double jobholding
Practical and lab classes conducting, student consulting, development of course materials and tests

Aug. 2013 – Sep. 2011
Research Assistant at Tula State University, Tula
Statistical and data analytic reports, automated process monitoring, raw data preprocessing, management and accuracy monitoring

Education

January 2015
PhD Power engineering, **Tula State University**, Tula
Thesis: "Electrical Energy Distribution Devices Consumption and Operation Efficiency Improvement"
Advisor: Prof. Vladimir Stepanov

July 2011
MSc Power engineering, **Tula State University**, Tula
Thesis: "Transformer Electrical Energy Dissipation Simulation"
Advisor: Ass. Prof. Yuri Gorelov
Detailed List of Subjects

July 2009
BSc Power engineering, **Tula State University**, Tula
Heavily specialized in scientific computation
Advisor: Ass. Prof. Yuri Gorelov
Detailed List of Subjects

Scholarships and Certificates

2013/2014 — the Government of the Russian Federation Scholarship
Apr. 2014 — XII Moscow International Energy Forum "Russian Fuel and Energy Complex in the XXI century", Subpanel "Conception of Energy Efficiency" the "Best Research" award

Languages

English: Oral: Intermediate
Written: Advanced
Russian: Mothertongue

Computer Skills

Good Level:	Python, R, Linux, git
Intermediate:	HTML, CSS, JS, Django, LaTeX, Octave
Basic Level:	C++, Matlab

Publications

1. Karateev P.Y. Manufacturing plant electric power supply system usage and distribution efficiency assessment // Tula State university journal. Engineering Sciences. - Tula: Publishing House TSU, 2013. - Volume 12-2. - P. 103-106;
2. Stepanov V.M., Kosirihein S.V., Karateev P.Y., Basil I.M. Enterprise power supply system electrical energy quality control and management // Tula State university journal. Engineering Sciences. - Tula: Publishing House TSU, 2013. - Volume 12-2. - P. 106-110;
3. Stepanov V.M., Karateev P.Y. Electrical energy consumption and operation efficiency distribution devices working capacity assessment // Tula State university journal. Engineering Sciences. - Tula: Publishing House TSU, 2013. - Volume 12-2. - P. 99-102;
4. Karateev P.Y. Electrical power supply systems and electrical substations layout functiomal reliability // Tula State university journal. Engineering Sciences. - Tula: Publishing House TSU, 2012. - Volume 12-3. - P. 113-116;
5. Karateev P.Y. Enterprise electrical energy consumption efficiency improvement for electrical consumer reliability // Tula State university journal. Engineering Sciences. - Tula: Publishing House TSU, 2012. - Volume 12-3. - P. 62-64;
6. Karateev P.Y. Transformer electrical energy dissipation simulation // Tula State university journal. Engineering Sciences. - Tula: Publishing House TSU, 2011. - Volume 6-1. - P. 223-229;
7. Karateev P.Y. Harmonic distortion electrical energy dissipation influence for transformer simulation // Tula State university journal. Engineering Sciences. - Tula: Publishing House TSU, 2011. - Volume 6-1. - P. 229-232;

Links

LinkedIn	pavelkarateev
Personal Blog	pavelkarateev.com
github	lancelote
twitter	Lancel0te
facebook	paul.karateev

Interests and Activities

Open-Source, Python Programming
Scientific computation
Go player

MSc

Grades

Exam	Hrs	Grade
Electrical power engineering modern problems	200	excellent
Science history and methodology	200	excellent
Scientific computation	200	excellent
Mathematics special chapters	144	excellent
Power conversion foundation, methods and devices	280	excellent
Stations and substations electricity-generating equipment transient process	100	excellent
Stations and substations electricity-generating equipment performance reliability and diagnostics	220	excellent
Stations and substations electricity-generating equipment computer-aided design	60	excellent
	Gpa	**4.0**

Pass/Fail Exam	Hrs	Pass/Fail
Philosophy	70	Pass
Foreign language (English)	150	Pass
Scientific work methodology	70	Pass
Stations and substations electricity-generating equipment physical processes mathematics simulation	240	Pass
Research activities	954	Pass
Academia practice	3 weeks	Pass

Term Paper	Grade
Scientific computation	excellent
Power conversion foundation, methods and devices	excellent
Stations and substations electricity-generating equipment transient process	excellent
Stations and substations electricity-generating equipment performance reliability and diagnostics	excellent
Stations and substations electricity-generating equipment computer-aided design	excellent
Stations and substations electricity-generating equipment physical processes mathematics simulation	excellent

BSc

Grades

Exam	Hrs	Grade
Foreign language (English)	340	excellent
Physical training	408	excellent
Russian history	140	excellent
Philosophy	140	excellent
Economy	140	excellent
Mathematics	705	good
Informatics	176	good
Physics	512	good
Chemistry	100	excellent
Automatic control mathematical background	178	excellent
Descriptive geometry and engineering graphics	220	good
Theoretical mechanics	100	excellent
Engineering mechanics	120	good
Electrical engineering theoretical foundations	400	good
Electromechanics	290	excellent
Emergency management	190	excellent
Power systems	306	excellent
Electric power supply system optimization	100	excellent
Electric power supply systems and services	200	excellent
Relay protection and electrical power supply system automation	162	excellent
	Gpa	**3.7**

Pass/Fail Exam	Hrs	Pass/Fail
Jurisprudence	75	Pass
Politology	85	Pass
Culturology	75	Pass
Sociology	85	Pass
Healthcare Science	35	Pass
Russian language and standard of speech	85	Pass
Psychology and pedagogy	120	Pass
Cultural heritage of Tula territory	31	Pass
Ecology	100	Pass
Mathematical problems in power engineering	122	Pass
Material science and construction materials engineering	200	Pass
Intelligential-measurement equipment and electronics	220	Pass
Metrology, standardization and certification	72	Pass
Electric-power industry	72	Pass
Electromagnetic capability	72	Pass
Electromechanical system design	100	Pass
Electrical and electronic devices	154	Pass
Electric power supply system computer application	91	Pass
Electromagnetic transient processes	99	Pass
Electrical power supply system reliability	91	Pass