

Evgeny P. Romashets

Houston TX

SUMMARY OF QUALIFICATIONS

- Evgeny (Eugene) Romashets is Physics Professor of Lone Star College of Houston. He is an expert in solar-terrestrial coupling processes and in particular interplanetary magnetic clouds. He is author or co-author of 60 peer-reviewed scientific papers, with 530 citations and an ISI h-index of 12. He has given talks and contributed papers at 70 scientific conferences and workshops. He is Member of American Geophysics Union (AGU) and American Astronomical Society (AAS).
- He has been a Co-Investigator on two INTAS projects (“Goeffective interplanetary structures: their origins on the Sun and in the solar wind” and “Solar and interplanetary disturbances causing severe geomagnetic storms”), PI and Co-I of three RFBR projects, two CRDF projects, and US-Czech Republic collaboration on Science and Technology “Three dimensional structure and evolution of magnetic clouds for space weather research”.
- He currently leads the following projects: “Euler Potentials”, “Magnetosheath”, and “Interplanetary magnetic clouds of toroidal shapes”.
- Specialties: Space science, space weather, numerical simulations, data analysis, programming, educational programs.
- Publications: See e.g. Google Scholar
- <https://scholar.google.com/citations?hl=en&user=XmuJPgcAAAAJ>
- Over ten years of teaching Physics at graduate and undergraduate levels
- Twenty five years of theoretical studies on solar, solar wind, magnetospheric, and ionospheric plasma and magnetic field
- Supervised graduate and undergraduate students involved into research projects
- Experienced observer on solar and stellar telescopes

EXPERIENCE

Instructor of Physics. Lone Star College, Houston, TX, June 2012 to present

- Lectures and Labs on Physics courses 1401, 1402, 2425, and 2426
- Tutoring Math and Physics, all levels

Teacher of Physics. Banff School, Houston, TX. August 2012 to May 2013

- Physics AP classes, 11th and 12th grades

Instructor of Physics. Houston Community College, Houston, TX, June 2014 to present

- Lectures and Labs on Physics courses 2325, 2326, 2125, 2126.

Scientist. Utrecht University, Netherlands. December 2009 to March 2011

Theoretical and numerical studies. Supervising students. Solar Observations at Dutch Open Telescope. High resolution images of prominences and solar flares in G band, H-alpha, Barium, and Calcium lines, speckle reconstruction, mosaics, movies, spectral analysis.

Research Associate. Prairie View A&M University, Prairie View, TX. October 2006- October 2009

- theoretical studies.
- Application of Euler potentials for modelling of field-aligned currents (FAC) in ionospheric plasma. It was shown that Birkeland currents and ring current can be successfully modeled by this method.
- Solar observations. Observations at 45 cm H-alpha telescope: images of active regions and solar flares.
- Lectures on solar -terrestrial physics

Scientist. KU Leuven, Belgium. October 2005 to October 2006

- Theoretical studies of solar wind and magnetosphere.
- Numerical modelling of geomagnetic storms. An analytical solution for

magnetospheric magnetic field was developed and applied for interpretation of Bastille day (July 2000) event.

Scientist. IZMIRAN, Troitsk, Russia. November 1988 to October 2005

- Theoretical and numerical studies
- Supervising graduate and undergraduate students
- Observations at Puschino Radiotelescope

EDUCATION

Moscow Institute of Physics and Technology, Russia. September 1982 to June 1988

Master of Physics and Mathematics degree. GPA 3.63

IZMIRAN, Troitsk, Moscow Region, Russia. July 1988 to November 1991
Ph.D in Physics and Mathematics degree

HONORS AND ACTIVITIES

Russian Foundation for Basic Research. Grant. January 2006 to December 2008

BELSPO, Grant, October 2005 to October 2006

EU/INTAS. Grant, January 2003 to December 2006

Civilian Research and Development Foundation. Grant, September 2002 to April 2003

EU/INTAS/ESA. Grant, January 2000 to December 2002

Russian Academy of Sciences. Stipend for outstanding young scientists. June 1999 to June 2002

Member of European Geophysical Society (EGS/EGU), March 1995 to present.

Member of American Geophysical Union (AGU), March 1995 to present.

Member of American Astronomical Society (AAS), June 1997 to present.