

# Vitalii Ostrovskyi

3650 Greenfield Ave, Apt 3  
Los Angeles, CA 90034  
Citizenship: Ukrainian.

Phone: (323) 898-6430  
Email: [vitalii@ostrovskyi.org.ua](mailto:vitalii@ostrovskyi.org.ua)  
Web: [www.ostrovskyi.org.ua](http://www.ostrovskyi.org.ua)

## Education

B.S. Mechanics and Mathematics, Kiev National University, 2004.

*Summa cum laude, GPA 4.0*

M.S. Mechanics and Mathematics, Kiev National University, 2006.

*Summa cum laude, GPA 4.0*

Ph.D. Mechanics of fluids, gas and plasma, Kiev National University, 2010.

Ph.D. Applied Mathematics, University of Southern California, 2013.

## Research interests

Dynamical systems, statistical modeling, design of experiment, distributed computation, machine learning, optimization, stability theory, fluid dynamics, geometric mechanics, variational integrators, singular solutions of partial differential equations.

## Employment

Institute of Cybernetics of NAS Ukraine, 2004–2005.

Teacher assistant, Department of Mathematics, USC, 2006–2011.

Research assistant, Department of Aerospace and Mechanical engineering, USC, 2009–2013.

Data Scientist, Sometrics, 2012–2013.

Sr. Data Architect, American Express, 2013–2014.

Lead Data Scientist, Omaze, 2014–now.

## Publications

P.K. Newton, V.V. Ostrovskyi, General stationary equilibrium singularity distributions in the plane, 2013, *to appear in proceedings of IUTAM symposium on Vortex Dynamics: Formation, Structure and Function*

P.K. Newton, V.V. Ostrovskyi, Energy-Momentum stability of icosahedral configurations of point vortices on a sphere, 2012, *Journal of Nonlinear Science, Vol. 22, N4, pp.499-515*

P.K. Newton, V.V. Ostrovskyi, Stationary equilibrium singularity distributions in the plane, 2012, *Nonlinearity, Vol. 25, N2.*

V.V. Meleshko, P.K. Newton, V.V. Ostrovskiy, Stability of the configurations of point vortices on a sphere, 2010, *Journal of Mathematical Sciences*, Vol. 171.

V.V. Ostrovskiy, Fluid motion in the field of vortex pair on a steady sphere, 2008, *Bulletin of Kiev University*, 1.

V.V. Ostrovskiy, A.F. Ulitko, Planar and axisymmetric problems for elastic layer on rigid substrate under Hertz pressure, 2006, *Bulletin of Kiev University* 1.

## Conferences and Workshops

Spark Summit, San Francisco, CA, USA, 2015.

IUTAM symposium on Vortex Dynamics: Formation, Structure and Function, Fukuoka, Japan, 2013.

Annual Structured Integrators Workshop, (years 2008-2011).

3rd, 4th, 5th Southern California Symposium on Flow Physics, CA, USA (years 2009-2011).

The 63rd Annual Meeting of the American Physical Society's Division of Fluid Dynamics (DFD), Long Beach, CA, USA, 2010.

2010 Fall Western Section Meeting of AMS, Los Angeles, CA, USA 2010.

Regular and chaotic dynamics, Izhevsk, Russia, 2010.

IUTAM symposium '150 Years of Vortex Dynamics', Copenhagen, Denmark 2008.