# Curriculum vitae

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| PERSONAL INFORMATION | **Alkiviadis Kalampokis** |

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## WORK EXPERIENCE

**01/07/2015–Present**
### Post-doctoral Research Fellow
Hellenic Centre for Marine Research (HCMR), Insititute of Oceaography, Sector of Oceanic Observatories and Operational Oceanography, Heraklion (Greece)

- Management, analysis and quality control of data coming from the moored observatories, Ferrybox and gliders of the POSEIDON system.
- Member of the Glider pilots team
- Participation on Oceanographic campaigns for sampling, deployment of autonomous instruments.
- Calibration of field Instruments.
- Responsible for designing and creating the web interface for displaying the forecasting results of the operational meteorological and oceanographic operational models of the POSEIDON system.

**01/07/2013–30/06/2015**
### Post-Doctoral Research Fellow
"Parthenope" University of Naples, Naples (Italy)

- Responsible for handling, managing, quality control and analyzing data from the Coastal HF Radar system (CODAR) installed in the Gulf of Naples.
- Study of Lagrangian dynamics, connectivity, oil spill trajectories and waves utilizing data from drifters and the HF-Radar System.

**2007–2013**
### Adjunct Lecturer
University of the Aegean, Department of Marine Sciences, Mytilene (Greece)

Teaching Computer Programming (FORTRAN Programming Language)

**2009–2013**
### Post-Doctoral Research Fellow
University of the Aegean, Department of Marine Sciences, Mytilene (Greece)

- Participation in Oceanographic campaigns collecting surface circulation data, utilizing coastal HF-Radars and Lagrangian drifters.
- Design and development of a software platform for the real-time tracking and data collection from Lagrangian drifters.

**2007–2009**
### Adjunct Lecturer
Aristotle University of Thessaloniki, Department of Computer Science, Thessaloniki (Greece)

Teaching Laboratory Sessions for the Programming Languages C and C++.

**2002–2006**
### Post Doctoral Research Fellow
University of Thessaloniki, Department of Physics, Thessaloniki (Greece)

Research on computational Language interaction individual based models, involving vocabulary exchange between populations.

**2000–2002**
### Software developer

Computer Team Inc., Thessaloniki (Greece)

Software development on databases of medical facilities, On-line transactions of insurance organizations, and general medical information management.

## EDUCATION AND TRAINING

| 1995–2001 | **Ph.D.** |
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Aristotle University of Thessaloniki, Department of Physics, Thessaloniki (Greece)

Ph.D. in computational physics - complex systems. Title: "Signal Processing in Complex Systems"

| 1988–1996 | **Degree in Physics (4 years)** |
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Aristotle University of Thessaloniki, Department of Physics, Thessaloniki (Greece)

## PERSONAL SKILLS

**Mother tongue(s)**      Greek

**Foreign language(s)**

| UNDERSTANDING | | SPEAKING | | WRITING |
|---|---|---|---|---|
| Listening | Reading | Spoken interaction | Spoken production | |
| C2 | C2 | C2 | C2 | C2 |
| Cambridge Certificate of Proficiency in English<br>Michigan Certificate of Proficiency in English | | | | |

Levels: A1 and A2: Basic user - B1 and B2: Independent user - C1 and C2: Proficient user
Common European Framework of Reference for Languages

**Communication skills**      Good communication skills gained through the involvement in research teams, participation and presentations in conferences and international meetings.

**Digital skills**

- **Experience in Information Technologies**
- Worked professionally as computer programmer and developer in Delphi, SQL, and Oracle.
- Application development for the WWW in PHP.
- Development, implementation and support of Databases(Oracle, SQL Server, Interbase, Postgres).
- Wide experience in computer programming in Matlab, Python, Java, Javascript, C, C++, C#, Pascal, Basic.
- Wide experience in installation, administration, and teaching the use of Unix systems (Linux, HP-UX, SCO, Solaris), Novell OS, MS-DOS, MS-Windows.
- Use of multiprocessor systems (grids) in scientific research.
- Proficient in most commercial applications (word processing, spreadsheets, application for mathematics, photo processing etc.).

**Other skills**

- Scuba diving instructor: PADI Master Scuba Diver Trainer, certified to teach the following specialties:
  - □ Deep Diver
  - □ Wreck Diver
  - □ Underwater Digital Photographer
  - □ Enriched Air Diver
  - □ Emergency Oxygen Provider
  - □ Emergency First Response instructor, certified by EFR.

- Member and for many years Secretary of the Photography club of the Aristotle University of Thessaloniki. Participated in a large number of group exhibitions of the club, and for many years taught in the seminars organized by the club.
- Certified Sailboat skipper
- Observer Meteorologist, certified by the Hellenic National Meteorological Service.
- Speedboat operator license from the Hellenic Port authority.

Driving licence    A, B

## ADDITIONAL INFORMATION

Publications    **Papers in peer reviewed journals**

- S. Saviano, M. Uttieri, A. Kalampokis and E. Zambianchi, *A year-long assessment of wave measurement retrieved from an HF radar network in the Gulf of Naples (Tyrrhenian Sea, Western Mediterranean Sea)* https://doi.org/10.1080/1755876X.2019.1565853
- Petihakis, G., Perivoliotis, L., Korres, G., Ballas, D., Frangoulis, C., Pagonis, P., Ntoumas, M., Pettas, M., Chalkiopoulos, A., Sotiropoulou, M., Bekiari, M., Kalampokis, A., Ravdas, M., Bourma, E., Christodoulaki, S., Zacharioudaki, A., Kassis, D., Potiris, E., Triantafyllou, G., Tsiaras, K., Krasakopoulou, E., Velanas, S., and Zisis, N.: *An integrated open-coastal biogeochemistry, ecosystem and biodiversity observatory of the eastern Mediterranean – the Cretan Sea component of the POSEIDON system*, Ocean Sci., 14, 1223-1245, https://doi.org/10.5194/os-14-1223-2018, 2018.
- Potiris, E., Frangoulis, C., Kalampokis, A., Ntoumas, M., Pettas, M., Petihakis, G. and Zervakis, V., 2018. *Acoustic Doppler current profiler observations of migration patterns of zooplankton in the Cretan Sea*. Ocean Science, 14(5).
- A. Kalampokis, M. Uttieri, P.M. Poulain, E.Zambianchi, *Validation of HF radar-derived currents in the Gulf of Naples with Lagrangian data,* IEEE Geoscience and Remote Sensing Letters, 13(10), pp.1452-1456.
- *P.* Falco, B. Buonocore, D. Cianelli, L. De Luca, A. Giordano, I. Iermano, A. Kalampokis, S. Saviano, M. Uttieri, G. Zambardino, and E. Zambianchi, *Dynamics and sea state in the Gulf of Naples: potential use of high-frequency radar data in an operational oceanographic context*. Journal of Operational Oceanography, 9(sup1), pp.s33-s45, 2016.
- L Bellomo, A Griffa, S Cosoli, P Falco , R Gerin, I Iermano, A Kalampokis, Z Kokkini, A Lana, M G Magaldi, I Mamoutos, C Mantovani, J Marmain, E Potiris, J M Sayol, Y Barbin, M Berta, M Borghini, A Bussani, L Corgnati, Q Dagneaux, J Gaggelli, P Guterman, D Mallarino, A Mazzoldi, A Molcard, A Orfila, P-M Poulain, C Quentin, J Tintoré, M Uttieri, A Vetrano, E Zambianchi, V Zervakis, *Toward an integrated HF radar network in the Mediterranean Sea to improve search and rescue and oil spill response: the TOSCA project experience, Journal of Operational Oceanography,* vol. 8, 95-107 (2015)*Z. Kokkini, M. Potiris, A. Kalampokis, V. Zervakis, HF Radar observations of the Dardanelles outflow current in North Eastern Aegean using validated WERA HF radar data*, Mediterranean Marine Science, vol. No.4 (2014)
- A. P. Masucci, A. Kalampokis, V. M. Eguíluz, and E. Hernández-García, *Extracting directed information flow networks: An application to genetics and semantics*, Phys. Rev. E 83, 026103 (2011)
- A. P. Masucci, A. Kalampokis, V. M. Eguíluz, and E. Hernández-García, *Wikipedia information flow analysis reveals the scale-free architecture of the Semantic Space*, PLoS ONE **6**(2): e17333 (2011)
- A. Kalampokis, K. Kosmidis and P. Argyrakis, *Evolution of vocabulary an scale-free and random networks*, Physica A, **379**, 665-671 (2007)
- C. Kotsavasiloglou, A. Kalampokis, P. Argyrakis and S. Baloyannis, *Modelling signal transmission and robustness in biological neural networks,* International Journal of Biology and Biomedical Engineering, **2**, vol1, 41-45 (2007)
- K. Kosmidis, A. Kalampokis and P. Argyrakis, *Statistical mechanical approach to human language,* Physica A, **366**, 495 - 502 (2006)
- K. Kosmidis, A. Kalampokis and P. Argyrakis, *Language time series analysis*, Physica A, **370,** 808-816 (2006)**.**

- A. Kalampokis, C. Kotsavasiloglou, P. Argyrakis and S. Baloyannis, *Robustness in biological neural networks*, Physica A, **317**, 581 (2003)

- A. Kalampokis, P. Argyrakis and P. Macheras, *A Heterogeneous Tube Model for the study of intestinal drug absorption based on probabilistic concepts*, Pharm. Res., **16**, 1764 (1999)

- A. Kalampokis, P. Argyrakis and P. Macheras, *Heterogeneous Tube Model for the study of small intestinal transit flow*, Pharm. Res., **16**, 87 (1999)

- A. Kalampokis, E. Hatzikraniotis, and K.M. Paraskevopoulos, *Study of the Deintercalation Process in $Bi_2Se_3$ Single Crystals Treated with Hydrazine*, Mat.Res.Bul. **33**, 1359 (1998)

- C. Kotsavasiloglou, A. Kalampokis, P. Argyrakis and S. Baloyannis, *A Model for a Neural Network Structure and Signal Transmission*, Phys. Rev. E , **56**, 4489 (1997)

**Chapters in Books**

Masucci, A. Paolo, Alkiviadis Kalampokis, Víctor M. Eguíluz, and Emilio Hernandez-García. "Semantic Space as a Metapopulation System: Modelling the Wikipedia Information Flow Network." *Towards a Theoretical Framework for Analyzing Complex Linguistic Networks* (2015): 133.

Research Projects
- HIMIOFOTS (Hellenic Integrated Marine Inland water Observing, Forecasting and Offshore Technology System), *Hellenic Center for Marine Research (2019)*

- *CLAIM (Cleaning Litter by developing and Applying Innovative Methods in european seas) , Hellenic Center for Marine Research (2018)*

- *FIXO3 – Fixed Point Open Observatories Network, Hellenic Center for Marine Research (2017)*

- *Integrated project for marine observation, (Hellenic Center for Marine Research) (2015 - 2016)*

- *Elaborazione dati di Radar costieri in HF, RITMARE, CONISMA, Italy (2013 – 2015)*

- *TOSCA (Research Committee of the University of the Aegean) (2011-2013)*

- *Medecos (Research Committee of the University of the Aegean) (2010)*

- *Poseidon II (Research Committee of the University of the Aegean) (2008)*

- Interconi: *Interface controlled nucleation and crystallization*. (Research Committee of the Aristotle University of Thessaloniki) (2007)

- *Chrysalides: Software Development of a Virtual Laboratory for Optics and Electromagnetism*. (Research Committee of the Aristotle University of Thessaloniki) (2006 – 2007)

- *Dysonet: Human behavior through dynamics of complex social networks: An interdisciplinary approach* (Research Committee of the Aristotle University of Thessaloniki) (2006)

- *Pythagoras: Computational study of the development of the Language, using computational methods, emphasizing on the Greek language.* (Research Committee of the Aristotle University of Thessaloniki) (2004 – 2006)

- *Kinetic models for Drug absorption in the Gastrointestinal tract. Development and study of the dynamics and applications.*(Research Committee of the University of Athens) (1996 – 1998)

- *Copernicus: Computational modeling of diffusion in amorphous media* (Research Committee of the Aristotle University of Thessaloniki) (1994 – 1996)

- *Cooperation of Universities of Greece and Bulgaria: Education, exchanges, development of computational infrastructure.*(Research Committee of the Aristotle University of Thessaloniki) (1993 – 1994)