

# Curriculum Vita

Vagia Vlachou

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## Address:

Division of Pure Mathematics,  
Department of Mathematics,  
University of Patras,  
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## Personal Data:

Date of Birth: 20.06.1973.  
Place of birth: Thessaloniki, Greece.

## Research Interests:

Universal functions, approximation in the complex plane, hypercyclic operators, Riemann-zeta function.

## Studies:

1995, June: Bachelor in Mathematics, University of Crete.  
1998, October: Master in Pure Mathematics, University of Athens  
2002, December: Phd in Mathematics, University of Athens, Greece  
*Title of dissertasion: «Universal Taylor Series»*  
*Advisor : V. Nestoridis.*

## Academic Positions:

2014-today: Associate Professor Department of Mathematics University of Patras.  
2009-2014: Assistant Professor Department of Mathematics University of Patras.  
Winter Semester. 2009: Visiting researcher, Department of mathematics University  
of Würzburg, Germany. (DAAD-scholarship; on sabbatical leave)  
2005-2009: Lecturer, Department of Mathematics University of Patras.  
  
2003-2005: Visiting Lecturer, Department of Applied Mathematics University of  
Crete.  
  
2002-2003: : Visiting researcher, Department of mathematics, University of Trier,  
Germany. (DAAD-scholarship).

## **Teaching Experience:**

### **I. Teaching Assistance:**

1993-1994: University of Crete : "Linear Algebra" (2 semesters).

2000-2002: University of Athens:

1. "Topology and functional Analysis" (4 semesters).
2. "Complex Analysis" (3 semesters).

### **II. Full Lecture:**

2003-2005: University of Crete

1. "Analysis I", 2. "Analysis II"
3. "Calculus I".

2004-today : University of Patras:

1. "Algebra" , 2. "Complex Analysis"
  3. "Calculus II" 4. "Functional Analysis"
  5. "Real Analysis" 6. "Complex Analysis", graduate course
  7. "Introduction to Set Theory and Algebra"
  8. "Calculus I", 9. "Measure Theory and Integration"
  10. "Functional Analysis" graduate course
- Servis Courses to other departments.

### **III. Translation**

Translation to Greek of the book "An introduction to Complex Function Theory", of Bruce P. Palka.

## **SEMINARS-CONFERENCES:**

1. Talk at the conference International Conference on Complex Analysis, Potential Theory and Applications, (2018) Dublin, Ireland.
2. Invited talk at the conference Mathematical Analysis in Athens 2017 - Katavolos and Nestoridis, Greece.
3. Talk at the conference Aspects of Universality 2016, Würzburg, Germany.
4. Invited Talk at the conference Universal Functions 2015, Heraklion, Crete.
5. Invited talk at the University of Würzburg, Germany (2014).
6. Seminar talk, Department of Mathematics, University of Würzburg, Germany (2013).
7. Talk at conference Arithmetik an der A7 Hildesheim, Germany (2013).
8. Seminar talk, Department of Mathematics, University of Würzburg, Germany (2009).
9. Scientific visit: Department of Mathematics, University of Trier, Germany (2009).
10. Complex and Harmonic Analysis, 3-5 September, Archanes, Crete (2009).
11. Scientific visit: Department of Mathematics, University of Würzburg, Germany (invited talk, 2008).
12. Scientific visit: Department of Mathematics, University of Jordan (2008).
13. Invited talk in UFHO 2008 Trier Germany.
14. Mathematisches Forschungsinstitut Oberwolfach (invited talk, 2008).
15. Analysis Seminar, Mathematics Department University of Bordeaux, (2007).
16. Tag der Funktionentheorie, Trier 2007.

17. Complex and Harmonic Analysis international Conference May 25-27 (2006), Aristotle University of Thessaloniki.
18. Computational Methods and function theory, Joensuu-Finland (2005).
19. Conference Harmonic analysis and its applications, Orsay-France 2003.
20. Workshop on Harmonic Analysis, Orleans-France 2003 .
21. TDF 2003 Metz-France.
22. Computational Methods and function theory, Aveiro-Portugal (2001).

### **Publications:**

1. V. Vlachou, A Universal Taylor series in the doubly connected domain  $C \setminus \{1\}$ , *Complex Variables*, **47**, (2002), 123-129.
2. V. Vlachou, On some classes of universal functions, *Analysis*, **22**, (2002), 149-161.
3. V. Vlachou, Coincidence of two classes of universal Laurent series, *Complex Variables*, **47** (2002), 1045-1053.
4. G. Costakis and V. Vlachou, A generic result concerning univalent universal functions, *Arch. Math. (Basel)* **82** (2004), 344--351.
5. G. Costakis and V. Vlachou, Identical approximative sequence for various notions of universality, *J. Approx. Theory* **132** (2005)15--24.
6. D. Mayenberger and V. Vlachou, Construction of a universal Laurent Series, *Comput. Methods Funct. Theory* **5** (2005), 365--372.
7. J. Müller, V. Vlachou and A. Yavrian, Universal overconvergence and Ostrowski gaps, *Bull.London.Math.Soc.* **38** (2006), 597-606.
8. G. Costakis and V. Vlachou, Universal Taylor series on non-simply connected domains, *Analysis* **26** (2006) 347-363.
9. G. Costakis, V. Nestoridis and V. Vlachou, Smooth univalent universal functions, *Math. Proc. R. Ir. Acad.*, **107** (2007), 101-114.
10. V.Vlachou, Universal Taylor series on a non-simply connected domain and Hadamard-Ostrowski gaps, *Complex and harmonic analysis*, 221--229, *DEStech Publ., Inc., Lancaster, PA*, 2007.
11. J. Müller, V. Vlachou and A. Yavrian, Overconvergent series of rational functions and universal Laurent series, *J. Anal. Math.* **104**, (2008), 235-245.
12. V.Vlachou, Functions with universal Faber Expansions, *J.London Math.Soc.* **80** (2009), 531-543.
13. N.Tsirivas and V.Vlachou, Universal Faber Series with Hadamard-Ostrowski Gaps , *Comput. Methods Funct. Theory* **10** (2010), 155--165.

14. G.Costakis and V.Vlachou, Interpolation by universal, hypercyclic functions, *J. Approx. Theory* **164** (2012) 625-636.
15. Christ, Thomas; Steuding, Jörn; Vlachou, Vagia, Differential Universality, *Math. Nach.* **286** (2013) 160-170.
16. G. Costakis, N.Tsirivas and V.Vlachou, Non-Existence of Common Hypercyclic Entire Functions for certain type of Translation Operators, *Comput. Methods Funct. Theory* **15** (2015), 393-401.
17. A. Bacharoglou, Ch. Kariofillis, Ch. Kontstantilaki and V.Vlachou, Smooth Universal Taylor series on doubly connected domains, *Complex Variables and Elliptic Equations*, **61** (2016), 374-387.
18. N. Chatzigiannakidou and V.Vlachou, Doubly universal Taylor Series on simply connected domains, *Eur. J. Math.* **2** (2016) 1031-1038.
19. V.Vlachou, Disjoint universality for Taylor type operators, *J. Math. Anal. Appl.* **2** (2017) 1318-1330.

**References: Over 100.**

**Referee for the Journals**

- *Complex Variables and Elliptic Equations*,
- *Mathematische Nachrichten*,
- *Journal of Mathematical Analysis and its applications*,
- *Bulletin of Greek Mathematical Society*.