

CURRICULUM VITAE – IUSTIN COANDĂ

Name and first name:

Coandă, Iustin-Gheorghe

Affiliation and official address:

Institute of Mathematics of the Romanian Academy,
P.O. Box 1-764, RO-014700 Bucharest, Romania

E-mail:

iustin.coanda@imar.ro

Date and place of birth:

April 16, 1957, Bucharest, Romania

Education and academic degrees:

- 1976–1981: Faculty of Mathematics, University of Bucharest
- 1980: Licence in Mathematics, University of Bucharest
- 1981: Specialization Degree in Algebra and Geometry, University of Bucharest
- 1988: Doctor degree in Mathematics, Bucharest, with a thesis on *Rank 3 vector bundles on projective spaces* under the direction of Constantin Bănică

Employment:

- 1981–1983: Professor of Mathematics at the School 65, Bucharest
- 1983–1988: Mathematician at the Department of Mathematics of INCREST
- 1988–1990: Researcher at the Department of Mathematics of INCREST
- 1990–1997: Research master at the Institute of Mathematics of the Romanian Academy
- since 1997: Senior researcher at the Institute of Mathematics of the Romanian Academy

Scientific interests:

- Main field: Algebraic Geometry
- Other fields: Commutative Algebra, Homological Algebra

- Current research interests: Vector bundles on projective spaces, Equations and syzygies of embedded projective varieties

Awards:

- 1993: Prize “Gheorghe Țițeica” of the Romanian Academy

Research visits abroad:

- oct. 1990–apr. 1991: DFG grant at the University Bayreuth, Germany
- apr. 1991–june 1991: CNR grant at the University Trento, Italy
- july 1991–aug. 1992: Postdoctoral grant at the University Bayreuth, Germany
- nov. 1992–febr. 1993: DFG grant at the University Saarbruecken, Germany
- june 1993: Research visit at the University Bergen, Norway
- oct. 1993–dec. 1993: Postdoctoral grant at the University Paris VII, France
- febr. 1997–apr. 1997: Visiting professor at the University Angers, France
- may–july 1999: Visiting researcher at the University Kaiserslautern, Germany
- 11–25 febr. 2001: Research visit at the University Kaiserslautern, Germany
- 22 oct.–5 nov. 2001: Research visit at the University Kaiserslautern Germany
- 15 oct.–30 nov. 2002: DFG grant at the University Kaiserslautern, Germany
- nov. 2004: Research visit at the University Kaiserslautern, Germany
- 16–20 april 2007: Research visit at the University Kaiserslautern, Germany
- june 2010: Visiting researcher at the University Pau, France

Publications:

1. I. Coandă: *Asupra unei teoreme Elençwajg-Forster*, (*About a theorem of Elençwajg and Forster*) (Romanian), Stud. Cerc. Mat., Tom **35**, nr. 1, 3–9, 1983.
2. C. Bănică, I. Coandă: *Existence of rank 3 vector bundles with given Chern classes on homogeneous rational 3-folds*, Manuscripta math. **51**, 121–143,

1985.

3. I. Coandă: *The Chern classes of the stable rank 3 vector bundles on \mathbb{P}^3* , Math. Ann. **273**, 65–79, 1985.
4. I. Coandă: *On the spectrum of a stable rank 3 reflexive sheaf on \mathbb{P}^3* , J. reine angew. Math. **367**, 155–171, 1986.
5. I. Coandă: *On the duals of the stable rank 3 reflexive sheaves on \mathbb{P}^3 with maximal c_3* , Ann. Univ. Ferrara, Sez. VII, Sc. Mat., **XXXII**, 71–78, 1986.
6. I. Coandă: *Fibrat vectoriale de rang 3 pe spații proiective, (Rank 3 vector bundles on projective spaces)* (Romanian), Stud. Cerc. Mat., Tom **41**, nr. 5, 337–378, 1989.
7. I. Coandă: *About restricting 2-bundles on \mathbb{P}^3 to planes*, Math. Ann. **291**, 147–152, 1991.
8. I. Coandă: *On Barth’s restriction theorem*, J. reine angew. Math. **428**, 97–110, 1992.
9. I. Coandă: *Restriction theorems for vector bundles via the methods of Roth and Strano*, J. reine angew. Math. **487**, 1–25, 1997.
10. I. Coandă, A. Tikhomirov, G. Trautmann: *Irreducibility and smoothness of the moduli space of the mathematical 5-instantons over \mathbb{P}^3* , International J. Math. **14**, no.1, 1–45, 2003.
11. I. Coandă: *On the Bernstein-Gel’fand-Gel’fand correspondence and a result of Eisenbud, Fløystad and Schreyer*, J. Math. Kyoto Univ. **43**, no.2, 429–439, 2003.
12. I. Coandă, G. Trautmann: *Horrocks theory and the Bernstein-Gel’fand-Gel’fand correspondence*, Trans. Amer. Math. Soc. **358**, no. 3, 1015–1031, 2006.
13. I. Coandă, G. Trautmann: *The splitting criterion of Kempf and the Babylonian tower theorem*, Commun. Algebra **34**, no. 7, 2485–2488, 2006.
14. I. Biswas, I. Coandă, G. Trautmann: *A Babylonian tower theorem for principal bundles over projective spaces*, J. Math. Kyoto Univ. **49**, no. 1, 69–82, 2009.
15. I. Coandă: *The Horrocks correspondence for coherent sheaves on projective spaces*, Homology, Homotopy Appl. **12**, no. 1, 327–353, 2010.

16. I. Coandă: *Infinitely stably extendable vector bundles on projective spaces*, Arch. Math. **94**, no. 6, 539–545, 2010.

17. I. Coandă: *On the stability of syzygy bundles*, International J. Math. (to appear).