

Guido De Philippis

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PERSONAL DATA

Date and place of birth: 16th August 1985, Fiesole (FI)

Nationality: Italian

CURRENT POSITION

Full Professor, SISSA Trieste.

PREVIOUS APPOINTMENTS

- **April 2016-October 2018** Associate Professor, SISSA Trieste.
- **January 2015-March 2016** Chargé de recherche CNRS, ENS Lyon.
- **January 2014-December 2014** Post Doc, University of Zurich, Zurich.
- **January 2013-December 2013** HCM Post Doc, Hausdorff Center for Mathematics, Bonn.

EDUCATION

- **November 2012.** Ph.D in Mathematics, Scuola Normale Superiore, Pisa.
Title of the thesis: *Regularity of optimal transport maps and applications*.
Advisors: Prof. Luigi Ambrosio, Prof. Luis Caffarelli.
- **October 2009.** Master degree in Mathematics, magna cum laude, at the University of Florence.
Title of the thesis: *“Il determinante Jacobiano per mappe singolari”*.
Advisor: Dott. Emanuele Paolini.
- **October 2007.** Bachelor degree in Mathematics, magna cum laude, at the University of Florence.
Title of the thesis: *“Una dimostrazione della minimalità del cono di Simons”*.
Advisor: Dott. Emanuele Paolini.

PRIZES AND AWARDS

- Stampacchia Medal 2018
- Invited Speaker ICM 2018
- EMS prize 2016 of the European Mathematical Society.
- Carlo Miranda Prize 2014 of the Accademia di Scienze Fisiche e Matematiche di Napoli.
- Gioacchino Iapichino Prize 2012 of the Accademia Nazionale De Lincei

SELECTED PUBLICATIONS

- G. DE PHILIPPIS, A. FIGALLI : $W^{2,1}$ regularity for solutions of the Monge Ampère equation. *Invent. Math.*, **192** (2013), 55-69.
- G. DE PHILIPPIS, A. FIGALLI: *Partial regularity of optimal transport maps*. *Publ. Math. Inst. Hautes Etudes Sci.* **121** (2015), 81-112.
- L. BRASCO, G. DE PHILIPPIS, B. VELICHKOV: *Faber-Krahn inequalities in sharp quantitative form*. *Duke Math. J.* **164** (2015), 1777-1831.
- G. DE PHILIPPIS, F. RINDLER: *On the structure of \mathcal{A} -free measures and applications*. *Ann. of Math.* **184** (2016), 1017-1039.
- G. DE PHILIPPIS, A. DE ROSA, F. GHIRALDIN: *Rectifiability of varifolds with locally bounded first variation with respect to anisotropic surface energies*. *Comm. Pure Appl. Math.* **71**, (2018) 1123-1148

SELECTED LECTURES

- Invited Talk ICM 2018. Rio De Janeiro, August 2018.
- Rolf Nevanlinna Colloquium. Zurich, June 2017.
- Prize Lectures 7th European Congress. Berlin, July 2016.

EDITORSHIP

- **2016- present.** *Advances in nonlinear analysis*
- **2017- present.** *Journal of Functional Analysis*
- **2017- present.** *ESAIM: COCV*

GRANTS

- **2015-2018:** PI of the MIUR SIR-grant "Geometric Variational Problems".