

FOUCHÉ-GROBLA Olivier

Born on October 19, 1970, Paris, France

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Research work timeline:

2021 – 2025: research associate, FEST team, IEES <https://iees-paris.fr/en/>

2016 – 2020: research associate, GeF lab, CNAM <https://www.cnam.eu/>

2006 – 2015: research associate, LEESU lab, ENPC – AgroParisTech
<https://leesu.fr/fouche-olivier>

Position, 2006 – now: associate professor in Civil engineering, Land planning & Environment

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EDUCATION and DIPLOMA

December 5, 2018: Authorization to supervise research, Sorbonne University. Dir: Jean-Marie MOUCHEL, Head of UMR Metis, CNRS

October 2016 – March 2017: Discharge for thematic conversion in Geomatics, host laboratory: COGIT - LASTIG, IGN, Saint-Mandé

October 1996 – December 1999: PhD in Engineering geology - Hydrogeological modelling, École des Mines, École des Ponts, ParisTech

October 1995 – July 1996: Postgraduate in Geomaterials, Marne-la-Vallée University – Rheology of surfactant-polymeric drill mud

August 1994 – May 1995: Military service in Germany: manager of weapons and protection NBC materials in a transmissions regiment

September 1990 – July 1994: Bachelor and Master in Geodynamics of Earth external envelopes, Paris-Saclay University, Orsay, France

WORK EXPERIENCE (abstract)

• Experience as a research project or task manager since 2010:

2012 – 2020: AQUAVAR – Nice Côte-d'Azur regional project. Hydro-informatics & modelling: hydraulics, hydrogeology, hydrology.

2017 – 2019: MODLAC – Val-de-Marne regional project. Geomatic and hydrogeological modelling of an urban lake.

2015 – 2017: CEZURES – Pays de Loire-Normandie inter-regional project. Water budget in watershed head and aquifer-river exchanges.

2014 – 2016: VILLE10D / GEOTUN – IREX national project. Seasonal storage of sensible heat in tunnel-surrounding rocks.

2014 – 2015: PICRI / REFUJ – Ile-de-France regional project. Infiltration in an urban soil and mobilization of metals and PAH.

2010 – 2015: GESSOL / ANCRES – ADEME national project. Ecosystemic services of the soil for on-site sanitation - Retention and purification of wastewater by soils. Degradation of parabens and triclosans in soil.

2010 – 2013: FP7 / SMARTEST – European project. TU Delft (NL) coord. Funding scheme: Collaborative project ENV.2009.3.1.5.1. Infiltration tests in an urban soil and multifractal study of hydraulic conductivity.

• Experience as a lecturer from September 2004 to present:

- Classes, tutorials and practical work, on average 250 hours per year in tutor equivalent, from BAC + 3 to BAC + 5, that is to say an effective volume in front of students of about 310 hours, mainly in evening classes and on weekends (continuing education), not including the time of preparation of field days. Increasingly, e-learning courses (now 100%). Responsibility for 12 units of 3 ECTS.

- Main topics: Hydrogeology, Hydrochemistry, Urban hydrology, Water and waste management, Sewerage and roads, Geomatics.

- Organization and supervision of field courses in Geology, Rock and Soil mechanics.

- Bachelor's in Civil engineering, option Land planning & Environment / International Master's in Water sciences *EuroAqua*, Erasmus+

ADVISOR of PhD STUDENTS and MEMBER of PhD JURY (full list)

• 7 times, member of PhD committee: 1 cotutelle-Ivory Coast, 2 as main supervisor (90 %), 4 as co-advisor

- Supervisor for 90 % of David EONO PhD who started in 2020 at CNAM. *Un technosol dans le cycle urbain de l'eau ou comment valoriser les matériaux excavés*. Thesis advisor: Olivier FOUCHÉ. Host lab: IEES ; team: Fonctionnement Ecologique des Sols Tropicaux et Tempérés (FEST).

- Member of the steering committee of Hanane AROUI PhD who started in 2019 at IRD. *Bioturbation par les termites et fourmis et comportement hydromécanique des sols sableux*. Thesis advisor: Pascal JOUQUET. Host lab: IEES ; team: Fonctionnement Ecologique des Sols Tropicaux et Tempérés (FEST).

- Member of the steering committee of Damien TEDOLDI PhD (2014-2017) in the Ile-de-France regional project OPUR 4. *L'analyse du risque de contamination diffuse des nappes par les dispositifs d'infiltration à la parcelle des eaux de ruissellement urbain*. PhD ENPC. Thesis advisor: Marie-Christine GROMAIRE.

- Co-advisor for 25 % of Mingxuan DU PhD (2013-2016) in the Côte-d'Azur regional project AQUAVAR. *Integrated hydraulic modeling of groundwater flow and river-aquifer exchanges in the lower valley of Var river*. PhD UCA. Thesis advisor: Philippe GOURBESVILLE.

- Co-advisor for 25 % of Bahar SALAVATI PhD (2011-2015) in the European project SMARTEST. *Impact de l'urbanisation sur la réponse hydrologique des bassins versants urbains*. PhD UPMC. Thesis advisor: Pierre RIBSTEIN.

- Supervisor for 90 % of Behzad NASRI PhD (2010-2013) in the French national project ANCRES. *Le sol, milieu récepteur d'eaux usées traitées – Evaluation de l'impact de l'infiltration sur les fonctions du sol : rétention, affinage, transfert*. PhD ENPC. Thesis advisor: Bruno TASSIN.

- Supervisor of Théodore Koffi YAO PhD (2007-2010) in cotutelle. *Écoulement hétérogène dans un aquifère de socle fracturé: une enquête structurale et hydrochimique dans le bassin versant du Sassandra (Sud-ouest de la Côte d'Ivoire)*. PhD CNAM and Univ. Cocody (now UHB). Co-supervisors: Marie-Solange OGA, Nagnin SORO.

- **11 times, member of a PhD jury: Ecole Centrale de Paris (ECP, PARIS-SACLAY UNIV.), Ecole des Ponts (ENPC, PARIS-EST UNIV.), Polytech'Nice (COTE D'AZUR UNIV.), PARIS-SORBONNE UNIV., ENIT (TUNIS EL MANAR UNIV.)**
- **Reviewer** of a PhD: Denis FURSTENAU-PLEC (18/12/2020). Influence of hydrodynamics on phytoplankton behaviour in lakes in urban areas through high-frequency measurements and three-dimensional numerical modelling – Lake Champs-sur-Marne (France) and Lake Pampulha (Brazil). Thesis in cotutelle ENPC and UNIV. FED. MINAS DE GERAIS (UFMG). Thesis advisors: N. NASCIMENTO (EHR/UFMG) and B. VINCON-LEITE (ENPC). Co-supervisors: T. SILVA (EHR/UFMG) and B. LEMAIRE (ENPC). Reviewer 2: C.V.S. FERNANDES (UFPR). Examiners 1 and 2: O. ANNEVILLE (INRA) and S. KOIDE (UNB).
- **Reviewer** of a PhD: Mampuya Kinda FIDELE (17/12/2020). Conception d'une station expérimentale de traitement des eaux usées par filtres plantés de macrophytes. Cas de l'Université Kimpa Vita d'Uíge, Angola. COTE D'AZUR UNIV., ED 84 STIC. Thesis advisor: P. AUDRA. Reviewer 2: P. MOLLE (IRSTEA). Examiners: T. ALHALEL (TOULOUSE UNIV.) and M. GAETANO (COTE D'AZUR UNIV.). Invited: D. L. PEREZ (SUEZ). Pdt of jury: P. GOURBESVILLE.
- **Reviewer** of a PhD: Phuoc Quy An NGUYEN (11/07/2020). Methodology for wastewater impacts assessment in coastal areas - Application to Danang area, Vietnam. COTE D'AZUR UNIV., ED 84 STIC. Thesis advisor: P. AUDRA. Co-supervisor: V.T.V. NGUYEN (McGILL UNIV., Canada). Reviewer 2: M. GOMEZ VALENTIN (CATALUNYA UNIV., Spain). Examiners: O. DELESTRE, N.D. VO (DANANG UNIV.), Y. LIONG (SINGAPORE UNIV.). Invited: H. MADSEN (DHI). Pdt of jury: P. GOURBESVILLE.
- Examiner of a PhD: Souguch Cheik SOUGUEH (25/11/2019). Rôle fonctionnel des termites champignonnistes sur la structure des sols tropicaux et leur fonctionnement hydrique. SORBONNE UNIVERSITÉ, ED 129 SE. Thesis advisor: P. JOUQUET. Co-supervisor: N. BOITTINELLI (IRD). Reviewers 1 and 2: M. CHAUVAT (ROUEN UNIV.) and C. PELOSI (INRA). Examiners 2 and 3: A. AUCLERC (UNIV. de LORRAINE), C. RUMPEL (CNRS). Pdt of jury: L. ABBADIE (SORBONNE UNIV.).
- Examiner of a PhD: Élodie ZAVATTERO (21/01/2019). Integration of surface flow modelling in a decision support system: application of the Lower Var valley, France. COTE D'AZUR UNIV., ED 84 STIC. Thesis advisor: P. GOURBESVILLE. Co-supervisor: O. DELESTRE (COTE D'AZUR UNIV.). Reviewers 1 and 2: R. HINKELMANN (WaHyd, TU Berlin) and K. EL KADI-ABDERREZZAK (EDF). Examiner 2: Y. LIONG (SINGAPORE UNIV.).
- **Reviewer** of a PhD: Neng JIA (17/12/2018). Etude de la carbonatation des dispositifs du drainage profond de l'infrastructure ferroviaire. ÉCOLE DES PONTS (ENPC). Thesis advisor: B. TASSIN. Co-supervisor: F. PREVOT. Reviewer 2: E. GAUME (IFSTTAR). Examiners 1 and 2: R. MOILLERON (ENPC), M. KOSCIELNY (SNCF). Invited: D. DENELEE (IMN), N. CALON (SNCF).
- Examiner of a PhD: Marwa ZELLEG (02/07/2018). Caractérisation, traitement et valorisation de sédiments marins de dragage dans des matériaux de construction – Cas du port de Zarzis, Tunisie. Thesis in cotutelle ÉCOLE CENTRALE DE LILLE (ECL) and ÉCOLE NATIONALE D'INGÉNIEURS DE TUNIS (ENIT). Thesis advisors: Z. LAFFAJ (ECL) and E. HAMDY (ENIT). Reviewers 1 and 2: D. LEVACHER (NORMANDIE UNIV., Caen), J. NEJI (ENIT).
- Examiner of a PhD: Qiang MA (14/03/2018). Distributed hydrological modeling for flood risk assessment in urban context: Case of lower Var valley. COTE D'AZUR UNIV., ED 84 STIC. Thesis advisor: P. GOURBESVILLE. Reviewers 1 and 2: Y. LIONG (SINGAPORE UNIV.), M. GOMEZ VALENTIN (CATALUNYA UNIV., Spain). Examiner 2: O. DELESTRE.
- Examiner of a PhD: Viet TRAN-KHAC (19/12/2016). Modélisation par l'algorithme Random Forest de la distribution spatiale des métaux en traces dans 50 lacs en Île-de-France. Thesis in cotutelle ENPC and UNIV. FED. MINAS DE GERAIS (UFMG). Thesis advisors: N. NASCIMENTO and B. VINCON-LEITE (ENPC). Reviewers 1 and 2: S. BARRAUD (INSA) and M. MARQUES (RIO DE JANEIRO UNIV.). Co-supervisor: G. VARRAULT (ENPC). Examiner 2: J. NEMERY (RHÔNE-ALPES UNIV., Grenoble).
- Examiner of a PhD: Rafael VARGAS (09/12/2016). Deterministic hydrological modeling for flood risk assessment in large urban environments: Application to Mexico City. COTE D'AZUR UNIV., ED 84 STIC. Thesis advisor: P. GOURBESVILLE. Rapporteurs 1 and 2: Y. LIONG (SINGAPORE UNIV.), M. GOMEZ VALENTIN (CATALUNYA UNIV., Spain).
- Examiner of a PhD: Ghizlane BENOSMAN (05/07/2012). Migration de particules fines dans un milieu poreux : application au phénomène de colmatage. ÉCOLE CENTRALE DE PARIS (ECP). Thesis advisor: A. MODARESSI (ECP). Rapporteurs 1 and 2: Y. PEYSSON (IFPEN), L. LALOUI (EPFL). Examiner 2: A. BENAMAR (NORMANDIE UNIV., Le Havre). Pdt of Jury: P.-Y. HICHER.

CONVENER of SESSIONS in INTERNATIONAL CONFERENCES

- 12th IAEG Congress - Torino 2014. Session: Alluvial aquifer system modelling and management. Congress Chair: Giorgio LOLLINO (Italian Chapter), Consiglio Nazionale delle Ricerche. Int. Assoc. Engineering Geology.
- 43th IAH Congress - Montpellier 2016. Session: Agricultural and sanitation contaminants and implications for water services and health. Congress Chairs: Michel BAKALOWICZ (French chapter) and Johannes A.C. BARTH (German chapter). Int. Assoc. of Hydrogeologists.
- 1st ISRM International Conference on Advances in Rock Mechanics, Hammamet 2018, March 29-31, Tunisia. Session: Rock fracture network modelling. Congress chair: Essaieb HAMDY (Tunisian chapter).
- 6th SimHydro International Conference, Nice 2021, June 16-18, Sophia Antipolis, France. Models for complex and global water issues, practices and expectations. Congress chair: Philippe GOURBESVILLE, Société hydrotechnique de France - SHF

PUBLICATIONS (please look at my ResearchGate page) and EVALUATION of PAPERS or PROJECTS

- 14 papers in first rank impact factor journals. Guest editor of a special issue of Environmental Science and Pollution Research.
- Peer-reviewed communications: 20 in international conferences, 11 in national journals or conferences.
- Other communications (without proceedings): 15 in international colloquium or workshops, 21 in national ones.
- 5 chapters of educational and scientific books: for instance, in *Théorie et pratique de la géotechnique*, Ed. Le Moniteur, 998 p. *Les sols – Intégrer leur multifonctionnalité pour une gestion durable*. Coll. « Savoir-faire », Ed. Quæ, 379 p. In French.
- Reviewer for international journals: Nonlinear Processes in Geophysics, Vadose Zone Journal, Geomechanics for Energy and the Environment, Soil Science Society of America Journal, Int. J. of Rock Mechanics and Mining Sciences, CR Geoscience, Revue française de géotechnique, La Houille blanche, Int. Journal of Sustainable Development, Hydrogeology Journal.
- Evaluation of research projects: several ANR (France + international) ; PARRAF (Afrique) ; FRQ (Canada).