

PERSONAL INFORMATION

COSSART Étienne

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Date of birth: 23 april 1979

Nationality: French

Professional experience

2015-today	Professor, Physical Geography and Geomorphology, Lyon 3 University, France
2006-2015	Lecturer in Physical Geography, Panthéon - Sorbonne University, France

Education

2014	Habilitation à diriger des recherches (Habilitation thesis), « <i>Connectivity in mountainous catchments</i> », Physical Geography, University Blaise Pascal, Clermont-Ferrand, France
2005	PhD in Geomorphology, « <i>Geomorphic evolution of the upper Durance catchment (Southern French Alps)</i> » University Denis-Diderot, Paris, France Supervisor: Prof. Monique FORT

Grants

- 2013 – 2017 PEDR, Specific grant to promote the excellence of research (success rate = 10%)
2001 – 2004 PhD, Specific grant to encourage young researchers, Faculty of Geography-History-Social sciences, University Denis-Diderot, Paris, France
2000 – 2001 DEA (Master 2) of Geomorphology, grant to promote high-level students (success rate = 5%)

Supervision of Graduate Students and Postdoctoral Fellows

2010-2014	Romain Perrier	PhD	<i>Permafrost melting in the southern French Alps</i> University Denis-Diderot, Paris, France Co-supervisor: Prof. Monique FORT
2016-2019	William Langlois de Septenville	PhD	<i>Risks due to atmospheric pollution in Arve valley (French Alps)</i> Lyon 3 University, France
2016-2017	Mathieu Fressard	Postdoc	<i>Soil erosion in Burgundy vineyards</i> Lyon 3 University, France

Supervision of scientific programs

- 2009 VAL-PG, Datings of glacial retreat in southern French alps (6 k€)
2010 PEPS (CNRS), ASPERGE, Spatial analysis of permafrost melting (10 k€)
2016 Bourgeon (Univ. Lyon 3), Connectivity in geomorphology (8.8 k€)
2016-17 IDEX (initiatives of excellent level), soil erosion in vineyards (50k€)

Involvement within scientific programs

- 2010-13 Arctic and climate change, geomorphic impacts of glacial retreat (40 k€)
2012-16 Society Adaptation to Climate Change (SAMCO), ANR (500 k€)

Teaching activities (Selected)

Since 2005 (>200 h/year)

- Fundamentals of geomorphology, hydrology, climatology, natural hazards
- Climate change and societal impacts
- Spatial modelling and geomatics

International teaching activities

- 2013 Co-responsible (with J. Douvinet, Univ. Avignon) of Summer school for Young Geomorphologists (International Association of Geomorphologists)
- 2011 Co-responsible (with J. Douvinet, Univ. Avignon) of Thematic school CNRS - GEOSACS Spatial and theoretical analysis of complex environmental systems.

Organisation of Scientific Meetings (Selected)

- 2011-2013 Member of the organisatory board of the **8th International Conference on Geomorphology** (International Assoc. of Geomorphologists, Paris, 27-30/08/2013). 1400 participants.
- 2011 Co-responsible and chairman of a scientific session at **European Geoscience Union Assembly** (Vienna, 5 au 8 avril 2011).
- 2010 Co-responsible of **Meeting of Young Geomorphologists** (Paris, 5 & 6 februar 2010). 60 contributors. Co-resp. : Franck LAVIGNE & Charles LE COEUR

Institutional Responsibilities (Selected)

- 2016 – 2020 Elected member of the **National Committee for Scientific Research**, CoNRS (section 31 “interactions between human and environment”), France (evaluation of researchers, of research units, recruitment of researchers)
- 2016 – 2020 Elected member of **National Interdisciplinary Board for Scientific Research**, CoNRS (CID 52 “from fundamental to practical research in environment”), France (evaluation of researchers, recruitment of researchers)
- 2016 – 2020 Organiser of the Internal Seminar, **Environnement Ville Société research unit**, CNRS, Lyon, France
- 2014 – 2015 Director of **recruitment board** for engineers in geomatics, CNRS, France
- 2010 – 2014 Faculty of geography, **vice-director**, University Panthéon-Sorbonne, France

Commissions of Trust

- 2016 – ? **Scientific Evaluation**, HCERES (French agency for the evaluation of research units), France (2 research units evaluated)
- 2009 – ? **Review Board**, Journal “*Géomorphologie: relief, processus, environnement*”, France
- 2014 – ? **Review Board**, *Cybergeo- European journal of Geography*, France
- 2009 – ? **Review panel member** (> 15 evaluated programs)
 SNSF – Swiss National Science Foundation (Switzerland)
 ANR – Agence Nationale de la Recherche (France)
 DFG - German Research Foundation, Bonn (Germany)
 GACR - Czech Science Foundation (Czech rep.)
 FRQNT- Fonds de recherche du Québec – Nature et technologies (Québec)
- 2006 – ? **Reviewer** (> 30 evaluated scientific papers)
 Palaeo3, Geomorphology, Earth Surface Processes and Landforms, etc.

Publications

Publications: Synthetic table

	Total	(as 1 st author)	(submitted)
Supervision of special issues	4	x	1
Journals with impact-factor	24	15	1
Other peer-review journals	9	6	1
Book chapters	9	5	
Other journals	5	4	
Expertise report	4	4	
Solicited conferences	12	12	1
Oral communications	29	16	1

Inventory since 2002
 H-Index = 10 (ISI web of science)
 Research Gate score = 24
 Number of citations = 267
 Cited by 193 documents

Selection of 10 main publications

- 1- COSSART E., Fressard M., 2017. Assessment of structural sediment connectivity within catchments: insights from graph theory. **Earth Surface Dynamics discussion**.
- 2- COSSART E., Mercier D., Decaulne A., Feuillet T., Jónsson H. P., Sæmundsson Þ., 2014. Impacts of post-glacial rebound on landslide spatial distribution at a regional scale in northern Iceland (Skagafjörður). **Earth Surface Processes and Landforms**. doi: 10.1002/esp.3450 (Impact-Factor: 2,49)
- 3- COSSART É., 2013. Influence of local vs regional settings on glaciation pattern in the French Alps. **Geografia Fisica e Dinamica Quaternaria**, Vol. 36 (1), pp. 39-52. (Impact-Factor: 0,6)
- 4- COSSART E., Mercier D., Decaulne A., Feuillet T., 2013. An overview of the consequences of paraglacial landsliding on deglaciated mountain slopes : typology, timing and contribution to cascading fluxes. **Quaternaire**, Vol. 1, pp. 13-24. (Impact-Factor: 0,6)
- 5- COSSART E., Fort M., Bourles D., Carcaillet J. , PERRIER R., Siame L., Braucher R., 2012. Glacier variations during the transition between Late-Glacial and Holocene periods : new insights from the Upper Durance catchment (Southern French Alps). **Palaeogeography, Palaeoclimatology, Palaeoecology**, Volumes 315–316, pp. 109-123. (Impact-Factor: 2,3)
- 6- COSSART E, 2011. Mapping Glacier Variations at Regional Scale through Equilibrium Line Altitude Interpolation : GIS and Statistical Application in Massif des Écrins (French Alps). **Journal of GIS**, Vol. 3 (3), pp. 232-241.
- 7- COSSART E., Fort M., Bourles D., Braucher R., Carcaillet J., Siame L., Perrier R., 2010. Climatic significance of glacier retreat and rockglaciers re-assessed in the light of cosmogenic dating and weathering rind thickness in Clarée valley (Briançonnais, French Alps). **CATENA**, Vol. 80 (1), pp. 214-219. (Impact-factor: 1.8)
- 8- COSSART E., Fort M., 2008a : Consequences of landslide dams on alpine river valleys : examples and typology from the French Southern Alps. **Norsk Geografisk Tidsskrift – Norwegian Journal of Geography**, Vol. 62, pp. 75-88. (Impact-Factor: 0.7)
- 9- COSSART E., Fort M., 2008b: Sediment release and storage in early deglaciated areas : towards an application of the exhaustion model from the case of the Massif des Ecrins (French Alps) since the Little Ice Age ». **Norsk Geografisk Tidsskrift – Norwegian Journal of Geography**, Vol. 62, pp. 115-131. (Impact-Factor: 0.7)
- 10- COSSART E., Braucher R., Fort M., Bourles D., Carcaillet J., 2008: The consequences of glacial debuitressing in deglaciated areas: Evidence from field data and cosmogenic datings. **Geomorphology**, Vol 95/1-2, pp. 3-26. (Impact-factor: 1.9)

Solicited lectures (selection)

- 1- COSSART E., june 2016: Graph theory and the assessment of sediment connectivity. Joint Geomorphological Meeting (26-30 june 2016), contact: L. Astrade.
- 2- COSSART E., april 2013: Do deglaciated mountainslopes contribute efficiently to the paraglacial sediment fluxes? EGU general assembly (7-12 avril 2013), contact : S. McColl.