

Dr. LICHT Alexis – Research Scientist (Chargé de Recherche) CNRS Sedimentary geologist & geochemist, paleoclimatologist

Centre de Recherche et d'Enseignement de Géosciences de l'Environnement (CEREGE), Aix-en-Provence, France

Tel : +33 6 70 67 78 39

Email : alexislicht@gmail.com

Website: <https://alexislicht.com/>

Born: June 18th, 1985, in Paris, France. 37 years old.

RESEARCH INTERESTS

I use sedimentary archives to study the links between Climate, Tectonics, and Life through geologic time. My work involves geological fieldwork and sampling, geochemical and geochronological analyses. I date sedimentary deposits and decipher their sedimentological and geochemical features to reconstruct past climates, paleogeographies, and ecosystems. I closely collaborate with structural geologists, paleontologists, paleobotanists, and other sedimentary geologists to address biogeographical and geological questions in the deep-time (million of years).

SKILLS

	Fluvial Sedimentology
	Pedology
Sed. Geology	Sedimentary Petrology
	Clay Mineralogy
Sed. Geochemistry	Geochronology (U-Pb, Sr and Nd isotopes) through TI-, ICP- and LA-ICP- Mass Spectrometry
	Stable and clumped isotopes geochemistry
Paleobotany	Paleoecology (fossil wood identification)

EDUCATION AND EMPLOYMENT

December 2021	Habilitation à Diriger des recherches , Université Aix-Marseille (CEREGE, Aix-en-Provence, France)
October 2020– onwards	CNRS Research Scientist , Centre de Recherche et d'Enseignement de Géosciences de l'Environnement (CEREGE, Aix-en-Provence, France) CNRS section 18 (Terre et planètes telluriques) : structure, histoire, modèles. Institut national des sciences de l'univers).
September 2016 – September 2020	Assistant Professor , Department of Earth and Space Sciences (ESS), University of Washington (UW) (Seattle, USA) Head of the ESS heavy minerals separation lab, co-supervisor of a LA-ICP-MS platform for U-Pb dating, teaching sedimentary geology and paleobiology classes.
September 2015 - August 2016	Marie Curie postdoctoral Fellow , Institut für Erd und Umweltwissenschaften (Potsdam Universität, Germany) Postdoctoral position on Asian paleoclimates under the supervision of M. Strecker (Laureate of a 2-years Marie Curie fellowship)
January 2015 – September 2015	Postdoc at the Biodiversity Institute , University of Kansas (Lawrence, USA) Postdoctoral position on Eocene paleoclimatic & paleogeographic reconstructions under the supervision of K.C. Beard.
January 2014 – December 2014	Postdoc at the Department of Geosciences , University of Arizona (Tucson, USA) Postdoctoral position on Eocene paleoclimatic & paleoaltimetric reconstructions under the supervision of J. Quade. Laureate of a 1-year Fyssen Fondation study grant.
September 2010 – November 2013	PhD student at the Institut de Paléontologie Humaine : Evolution et Paléoenvironnements (IPHEP, Poitiers, France) & Centre de Recherches Pétrographiques et Géochimiques (CRPG, Nancy, France) PhD Thesis « Paleodrainage, paleoenvironments and paleoclimate of the Burmese Eocene series: implications on the origin and the early evolution of Asian anthropoids ». Directors: J.J. Jaeger (IPHEP) & C. France-Lanord (CRPG).
September to December 2009	Internship at Areva BU Mines (France, Mongolia) Exploration campaign in the Gobi Desert (Mongolia), core logging and geochemical modeling of the uranium ore dynamics.
January 2009 – July 2010	Research Internships at the Institut de Physique du Globe de Paris (IPGP, France) Research study in archeomagnetism (ceramic samples dating, geomagnetic modeling), under the direction of Y. Gallet & G. Hulot.
August 2008 - December 2009	Master's degree in Applied Engineering , Ecole des Mines de Paris (ENSM, France) Majored in Geosciences, specialized in Geology.
April to August 2008	Internship at Total SA (France, Canada) Depositional modeling of the Mc Murray Formation (Alberta). Field trips in Alberta, Western Canada.
August 2005 - December 2009	Master's Degree in Civil Engineering , Ecole Polytechnique (X, Palaiseau, France) Majored in Physics, Applied Mathematics and Earth Sciences.
September 2006 - June 2009	Bachelor's Degree in History Study in parallel with the École Polytechnique curriculum, carried out at Paris X Nanterre.

PROFESSIONAL OFFICES / SERVICES / AWARDS

Current and future services & duties

- **Co-direction of the Climate team at CEREGE** (including 30 research scientists and teaching faculty members, 12 supporting staff and 20 PhD students and postdoc). Leadership transition in early 2023, acting co-director in late 2023-early 2024.
- **Member of the Communication team of CEREGE** (duties: organization of monthly seminar, design of CEREGE website).
- **Member of the Scientific Board of the Parc Naturel Régional du Luberon (PNRL).**
- **Founder and PI of the Myanmar Paleoclimate and Geodynamics Research Group**
Various duties including: managing a team of >15 international scientists, organizing field trips and outreach activities in Myanmar, managing scientific collaboration with Burmese authorities and academics, updating the team's website (<https://myapgr.blog/>).

Past Services & Duties at the University of Washington (2016-2020)

- **Co-manager of the Trace Element Lab**
The lab includes two ICP-mass spectrometers and one laser acquired in Summer 2016 and is designed to provide trace element compositional and isotopic analyses of a broad type of material. Duties includes: managing machine use and maintenance, managing and mentoring one full time technician, designing a cost-center budget, controlling data quality.
- **Co-manager of ESS rock preparation labs**
Various duties including: managing machine use and maintenance, user training, designing the rock prep website and writing tutorials (<http://rockprep.ess.washington.edu/>), controlling the cleaning and the safety of the rooms.
- **Department colloquium organizer (Winter and Spring 2018)**
- **Member of the Graduate admission committee (2017), member of the Diversity Equity and Inclusion committee (2019-2020)**

Teaching at the University of Washington (2016-2020)

ESS 455 (Stratigraphy) – Winter quarter 2017 and 2018

ESS 456 (Sedimentary Geology and Depositional Environments) – Spring Quarter 2017, 2018 and 2020

BIOL 483 (Seminar in Paleobiology) – Winter Quarter 2018, Spring 2020

ESS 400a (Summer field camp) – Summer Quarter 2018 and 2019

ESS 213 (Evolution of the Earth) – Spring 2019.

ESS 490 (graduate-level seminar) – multiple seminars on climate, tectonics, and sediment topics

Offices and services before 2016

September 2010 - August 2013 - **Université de Poitiers (Poitiers, France)** – Teaching assistant
Teaching in Paleoclimatology, Regional Geology of France, Earth Surface Dynamics and Cartography for three years.
2008 - 2011 **Scène-Expériences (Paris, France)**– Trainer in Communication
Trainer in communication skills through theatre, consultant for banking and consulting groups.
September 2008 - June 2009 **Lycée Lakanal (Sceaux, France)** – Oral examiner in Scientific preparatory classes
Weekly oral examiner in Mathematics.
Spring and Summer 2007 **Study Up (Paris, France)**– Learning support teacher for students in Scientific preparatory classes
Teaching in Mathematics and Physics.
June 2006 - December 2007 **X-MicroFinance (Palaiseau, France)**- President
Founder and first president of X-MicroFinance, humanitarian association of development aid; Founder of a bank for poor people in Guatemala. Coordination of the activity of more than sixty volunteers and organization of national events.
September 2005 - April 2006 **Military service (French Guyana, France)**– Officer
Army officer: training at School of Saint-Cyr Coëtquidan, then platoon commander in Saint-Jean-du-Maroni (French Guyana).

Awards

December 2022 **Early Career scientist award of the Conseil départemental des Bouches du Rhône**
Prix Départemental Jeune Chercheur 2022 pour la Recherche en Provence.
May 2014 **Van Straelen award of the Société Géologique de France**
Best PhD on Surface Geology in 2013.
June 2000 **First prize of the "Géophiles" competition**
National competition of Geography and Earth Sciences.

INVITED TALKS

- **Université de N'Djamena**, Chad (February 2022).
- **CRPG, Université de Lorraine**, Nancy (November 2021).
- **2021 Monsoon Seminar Series**, online. Introductory talk (January 2021).
- **University Aix-Marseille, CEREGE**, Aix-en-Provence, France (December 2020).
- **GeoMyanmar Conference**, Yangon, Myanmar (January 2020).
- **AGU Fall meeting**, San Francisco, USA (December 2019).
- **GSA PENROSE workshop CLAST**, Juneau, Alaska, USA (August 2019).
- **Western Washington University**, Bellingham, USA (February 2019).
- **University Aix-Marseille, CEREGE**, Aix-en-Provence, France (September 2018).
- **Louisiana State University**, Baton Rouge, USA (March 2018).
- **University of Lyon**, Lyon, France (December 2017).
- **University of Yangon**, Yangon, Myanmar (December 2016).
- **University of East Yangon**, Yangon, Myanmar (December 2016).
- **Biodiversität und Klima Forschungszentrum (Bik-F)**, Frankfurt, Germany (February 2016).
- **Universität Frankfurt**, Frankfurt, Germany (January 2016).
- **Geoforschungszentrum (GFZ)**, Potsdam, Germany (November 2015).
- **NSF Seminar the Colonization of Africa by Early Anthropoid Primates**, Santa Fe, USA (March 2015).
- **University of Arizona**, Tucson, USA (December 2014).
- **University of Kansas**, Lawrence, USA (September 2014).
- **University of Washington**, Seattle, USA (July 2014; April 2015).
- **Muséum National d'Histoire Naturelle**, Paris, France (June 2014).
- **Université de Rennes**, France (June 2014).
- **Laboratoire des Sciences du Climat et de l'Environnement**, Saclay, France (June 2014).
- **Institut de Physique du Globe de Paris**, France (May 2014).
- **Université de Grenoble**, France (May 2014).
- **Utrecht Universiteit**, The Netherlands (November 2013).

STUDENTS AND SUPPORT STAFF

Postdoctoral students:

Mustafa Kaya (2021; CEREGE).

PhD students:

Nicolas Gentis (2021-2024; MNHN, co-advised with Anaïs Boura and Dario de Franceschi)
Hope Sisley (2018-2023; UW, co-advised with Julian Sachs)
Jan Westerweel (2017-2020; University of Rennes, co-advised with Pierrick Roperch and Guillaume Dupont-Nivet)
Li Sen (2018-2019; University of Geosciences Wuhan, China, co-advised with Hongtao Zhu; 1 year stay at UW)
Megan Mueller (2016-2021; UW)

Master students:

Paul Botté (2022; CEREGE)
Phyo Wai Thant (2022; CEREGE, co-advised with Clara Bolton)
Idriss Abakar (2022; CEREGE, co-advised with Pierre Rochette and Bertrand Devouard)
Nicolas Gentis (2019; Muséum National d'Histoire Naturelle, co-advised with Anaïs Boura)
Johanna Harle (2018; ENS, France)
Virginia Littell (2017-2019; UW)

Undergraduate students (2016-2020, UW):

Lauren Burch, Kevin Jackson, Christopher Remilly, Kyle Lowery, Diana Parks, Dominic Jones, Mara Page, Andrea Hatsukami, Aida Rusman, Gui Aksit, Stokke Xu, Sam Shekut, Ian Spendlove, Chris Baird, Jon Rowe, Ashika Capirala, Anjali Manoj, Brenden Britt, Derek Pierce

Support Engineers:

Aude Gébélain (2022; CEREGE, stable isotope lab).
Tamas Ugrai (2017-2021; UW, LA-ICP-MS lab).

Support Technician:

Shelly Bergel (2020; UW, stable isotope lab).

Graduate student committee membership (/PhD jury):

-UW (2016-2020): Megan Mueller, Virginia Littell, Paige Wilson, Brody Hovatter, Erin Williamson, Mikhail Echavarrí, Alex Lowe, Julia Kelson, Erik Goosmann, Susannah Morey, Mike Turzewski.

-France (2020-onwards): Julien Couturier, Clément Outrequin, Nazim Semmani (CEREGE), Nicolas Gentis (MNHN), Alexandre Hamon (ENSMP).

RESEARCH GRANTS

Awarded

September 2022- **ERC Consolidator Grant award**
August 2027 2 M€ to study Eocene mammalian dispersals.
January-July 2021 **APIC award (University of Aix-Marseille)**
14 k€ to set up a heavy mineral extraction line.

June 2020 – May 2022

ANR-T (Tremplin) award

120 k€ to study Eocene primate biogeography.

April 2018 - December 2019

Royalty Research Fund (RRF) fellowship

35 k\$ to study the uplift history of the Cascade Mountain Range.

September 2015 -

Alexander von Humboldt Postdoctoral fellowship

September 2016

2-years Postdoctoral fellowship –granted but declined because non cumulative with a Marie Curie postdoctoral fellowship.

September 2015 -

European Union Marie Curie Postdoctoral fellowship

September 2016

2-years Postdoctoral fellowship (shortened to one year after moving to the US).

January to December 2014

Fyssen Foundation Postdoctoral fellowship

September 2010 –

AMX PhD fellowship

August 2013

3-years PhD fellowship from the Ecole polytechnique.

PUBLICATIONS

*indicates students I directly advise(d). *indicates students from other institutes that I co-advise(d) or co-mentor(ed).

In review or revision:

(63) A. Nel, R. Garrouste, M. Kaya, A. Licht, S. Legal & P. Coster. The second oldest representative of the genus *Aeshna* (Odonata: Aeshnidae) found in the Lowermost Oligocene of Luberon (France) and revealed by UV light. *Historical Biology*.

(62) H. Huang*, R.J. Morley, R. van der Ham, A. Licht, G. Dupont-Nivet, Zaw Win, Day Wa Aung & C. Hoon. *Grimmipolis burmanica* gen. et sp. nov.: New genus of the soapberry family (Sapindaceae) from the late Eocene of central Myanmar. *Review of Palaeobotany and Palynology*.

(61) H. Sisley*, M. Wolhowe, J. Rowe, A. Licht, & J. Sachs. Rainshadow Effect on Hydrogen Isotopes in Leaf Wax n-Alkanes across the Cascade Mountains of Washington, USA. *Organic Geochemistry*

(60) D. Tardif, A.-C. Sarr, F. Fluteau, W. Baneld, C.T. Bolton, Y. Donnadieu, G. Dupont-Nivet, M. Kaya, J.-B. Ladant, G. Le Hir, A. Licht, Q. Pillot, F. Poblete, P. Sepulchre, A. Toumoulin. Asynchronous apparition of the Asian monsoons features since the late Eocene and associated paleogeographic and climatic drivers. *Earth Science Reviews*

(59) L. Sen*, A. Schauer, A. Licht, J. Liang, K. Huntington, K. Peng. Clumped isotope analysis of calcite and dolomite mixtures using selective acid extraction. *Journal of Earth Science*.

(58) C. Campbell*, M. Mueller*, M. Taylor, F. Ocakoglu, A. Moller, G. Metais, P. Coster, K.C. Beard & A. Licht. The Tectonic Implications of Passive Margin Subduction in Northwest Turkey. *Geochemistry Geophysics Geosystems*.

Published:

(57) Z. Zhang, A. Licht, D. De Vleeschouwer, D.B. Kemp, Z. Wang, R. Zhang, C. Huang (in press). East Asian monsoonal climate sensitivity changed in the late Pliocene in response to northern hemisphere glaciations. *Geophysical Research Letters*.

(56) C.E. Seyler, J. D. Kirkpatrick, C. Faber, A. Licht, D. Silerová, and C. Regalla (2022). Structural and metamorphic history of the Leech River Shear Zone, Vancouver Island, British Columbia. *Tectonics*, e2021TC007132.

(55) N. Meijer*, G. Dupont-Nivet, A. Licht, P. Roperch, A. Rohrmann, A. Sun, S. Lu, A. Woutersen, N. Nowaczyk (in press). Early Eocene magnetostratigraphy and tectonic evolution of the Xining Basin, NE Tibet. *Basin Research*.

(54) H. Huang*, R.J. Morley, A. Licht, G. Dupont-Nivet, D. Pérez-Pinedo*, J. Westerweel*, Zaw Win, Day Wa Aung, E. Budi Lelono, G.N. Aleksandrova, R.K. Saxena, C. Hoon (2023). A proto-monsoonal climate in the late Eocene of Southeast Asia: Evidence from a sedimentary record in central Myanmar. *Geoscience Frontiers* 14 (1), pp.101457.

(53) N. Gentis*, A. Licht, A. Boura, D. De Franceschi, Zaw Win, Day Wa Aung, & G. Dupont-Nivet (2022). Fossil wood from the lower Miocene of Myanmar (Natma Formation): paleoenvironmental and biogeographic implications. *Geodiversitas* 44 (28), pp.853-909.

(52) A. Licht, J. Kelson, S. Bergel, A. Schauer, S.V. Petersen, A. Capirala*, K. Huntington, G. Dupont-Nivet, Zaw Win, Day Wa Aung (2022). Dynamics of pedogenic carbonate growth in the monsoonal tropical domain. *Geochemistry Geophysics Geosystems* 23 (7), e2021GC009929.

(51) A. Licht & L. Giosan (2022). The Ayeyarwady River. *Large Rivers*, 2nd edition, Wiley (Book chapter).

(50) A.-C. Sarr, Y. Donnadieu, C.T. Bolton, J.-B. Ladant, A. Licht, F. Fluteau, M. Laugié, D. Tardif, G. Dupont-Nivet (2022). Reconciling South Asian Monsoon Rainfall and Wind Histories. *Nature Geoscience*. 15 (4), pp.314-319.

(49) A. Toumoulin, D. Tardif, Y. Donnadieu, A. Licht, J.-B. Ladant, L. Kunzmann, and G. Dupont-Nivet. Evolution of continental temperature seasonality from the Eocene greenhouse to the Oligocene icehouse - A model-data comparison (2022). *Climate of the Past*. 18 (2), 341-362.

(48) A. Licht, G. Métais, P. Coster, D. Iliogliu, F. Ocakoglu, J. Westerweel*, M. Mueller*, C. Campbell*, S. Mattingly, M.C. Wood & K.C. Beard (2022). Balkanatolia: the insular mammalian biogeographic province that partly paved the way to the Grande Coupure. *Earth Science Reviews* 226, pp.103929.

(47) M. Mueller*, A. Licht, C. Campbell*, F. Ocakoglu, G. Aksit*, G. Metais, P. Coster, K.C. Beard & M. Taylor (2022). Sedimentary provenance from the evolving forearc-to-foreland Central Sakarya Basin, western Anatolia reveals multi-phase intercontinental collision. *Geochemistry Geophysics Geosystems* 23, e2021GC010232.

(46) P.C. Bandopadhyay, D.J.J. van Hinsbergen, D. Bandopadhyay, A. Licht, E.L. Advokaat, A. Plunder, B. Ghosh, A. Dasgupta, and J. Trabucho-Alexandre. Paleogeography of the West Burma Block and the eastern Neotethys Ocean: constraints from Cenozoic sediments shed onto the Andaman-Nicobar ophiolites (2022). *Gondwana Research* 103, 335-361.

(45) H. Ao, E.J. Rohling, R. Zhang, A.E. Holbourn, A.P. Roberts, J.B. Ladant, G. Dupont-Nivet, W. Kuhnt, Y. Xu, Q. Liu, Z. Liu, M.J. Dekkers, C.J. Poulsen, A. Licht, J.C. H. Chiang, X. Liu, G. Wu, C. Ma, W. Zhou, F. Wu, Z. Jin, X. Li, X. Peng, Q. Sun, P. Zhang, X. Qiang, Z. An (2021). Global warming-induced Asian hydrological climate transition across the Miocene–Pliocene boundary. *Nature Communications* 12(1), 1-13.

(44) D. Tardif, A. Toumoulin, F. Fluteau, Y. Donnadieu, G. Le Hir, N. Barbolini, A. Licht, J.-B. Ladant, P. Sepulchre, N. Viovy, C. Hoon, G. Dupont-Nivet. Orbital variations as a major driver of climate and biome distribution during late Eocene to early Oligocene times (2021). *Science Advances* 7(43), eabb2819.

(43) H. Huang*, D. Pérez-Pinedo, R.J. Morley, G. Dupont-Nivet, A. Philip, Zaw Win, Day Wa Aung, A. Licht, P.E. Jardine, C. Hoon (2021). At a crossroads: the late Eocene flora of central Myanmar owes its position to plate collision and tropical climate. *Review of Palaeobotany and Palynology* 291, 104441.

(42) F. Cong, J. Tian, F. Hao, A. Licht, Y. Liu & J. Eiler (2021). A thermal pulse induced by a Permian mantle plume in the Tarim Basin, Southwest China: Constraints from clumped isotope thermometry and in-situ calcite U-Pb dating. *JGR: Solid Earth* 126 (4), e2020JB020636.

(41) N. Meijer*, G. Dupont-Nivet, N. Barbolini, A. Woutersen, A. Rohrmann, Y. Zhang, X.J. Liu, A. Licht, H.A. Abels, C. Hoon, R. Tjallingii, C. Andermann, M. Dietze & N. Nowaczyk (2021). Loess-Like Dust Appearance at 40 Ma in Central China. *Paleoceanography and Paleoclimatology* 36 (3), e2020PA003993.

(40) F. Poblete, G. Dupont-Nivet, A. Licht, D. van Hinsbergen, P. Roperch, M. Mihalynuk, S. Johnston, F. Guillocheau, G. Baby, F. Fluteau, C. Robin, T. Van der Linden, D. Ruiz, M. Baatsen. Global paleogeographic maps through the Greenhouse-Icehouse transition at 60, 40 and 20 Ma (2021). *Earth Science Reviews* 103508.

(39) N. Meijer*, Dupont-Nivet, G., Licht, A., Trabucho-Alexandre, J., Bourquin, S., & Abels, H. A. (2020). Identifying eolian dust in the geological record. *Earth-Science Reviews*, 103410.

(38) J. Westerweel*, A. Licht, N. Cogné, P. Roperch, G. Dupont-Nivet, Myat Kaithy*, Hnin Hnin Swe*, H. Huang, Zaw Win, Day Wa Aung (2020). Eocene to Eocene northward motion of the Burma Terrane and its indentation in the Eastern Himalayas. *Tectonics* 39, e2020TC006413.

(37) S. Shekut* & A. Licht (2020). Late middle Miocene emersion of the Olympic Peninsula shown by sedimentary provenance. *Lithosphere* (1): 7040598.

(36) H. Ao, G. Dupont-Nivet, E.J. Rohling, P. Zhang, J.-B. Ladant, A.P. Roberts, A. Licht, Q. Liu, Z. Liu, M.J. Dekkers, H.K. Coxall, Z. Jin, C. Huang, G. Xiao, C.J. Poulsen, N. Barbolini, N. Meijer*, Q. Sun, X. Qiang, J. Ya & Z. An (2020). Orbital climate variability on the northeastern Tibetan Plateau across the Eocene–Oligocene transition. *Nature Communications* 11, 5249.

(35) N. Barbolini, A. Woutersen, G. Dupont-Nivet, D. Silvestro, D. Tardif, P.M.C. Coster, N. Meijer*, C. Chang, H.X. Zhang, A. Licht, C. Rydin, A. Koutsodendrís, F. Han, A. Rohrmann, X.-J. Liu, Y. Zhang, Y. Donnadieu, F. Fluteau, J.-B. Ladant, G. Le Hir and C. Hoon (2020). Cenozoic evolution of the steppe-desert biome in Central Asia. *Science advances* 6, eabb8227.

(34) A. Licht, G. Dupont-Nivet, N. Meijer*, J. Caves-Rugenstein, A. Schauer, J. Fiebig, A. Mulch, C. Hoon, N. Barbolini & Z. Guo. Decline of soil respiration in NE Tibet through the fall into the Oligocene icehouse. *Paleogeography, Paleoclimatology, Paleoecology* 560, 110016.

(33) A. Licht, Zaw Win, J. Westerweel*, N. Cogné, C.K. Morley, S. Chantraprasert, F. Poblete, T. Ugrai, B. Nelson, Day Wa Aung and G. Dupont-Nivet (2020). Magmatic history of central Myanmar and implications for the evolution of the Burma Terrane. *Gondwana Research* 87, 303-319.

(32) K.C. Beard, G. Metais, F. Ocakoglu & A. Licht (2020). An omomyid primate from the Pontide Microcontinent of north-central Anatolia: implications for sweepstakes dispersal of terrestrial mammals during the Eocene. *Geobios* (in press).

(31) D. Tardif, F. Fluteau, Y. Donnadieu, G. Le Hir, J.-B. Ladant, A. Licht, F. Poblete, G. Dupont-Nivet, & P. Sepulchre (2020). The onset of Asian Monsoons: a modelling perspective. *Climate of the Past* 16 (3), 847-865.

(30) H. Huang*, R. Morley, A. Licht, G. Dupont-Nivet, F. Grimsson, R. Zetter, Zaw Win, Day Wa Aung & C. Hoon. Eocene palms from central Myanmar in a SE Asian and global perspective: Evidence from the palynological record (2020). *Botanical Journal of the Linnean Society* 194, 177-206.

(29) G. Xiao, Y. Sun, J. Yang, Q. Yin, G. Dupont-Nivet, A. Licht, A.E. Kehew, Y. Hu, J. Geng, Z. Wang, G. Dai, & Z. Wu (2020). Early Pleistocene integration of the Yellow River shown by detrital zircon provenance. *Paleogeography, Paleoclimatology, Paleoecology* 109691.

(28) M.D. Turzewski, K.W. Huntington, A. Licht & K. Lang. Provenance and erosional impact of Quaternary megafloods through the Yarlung-Tsangpo Gorge from zircon U-Pb geochronology of flood deposits, Eastern Himalaya (2020). *Earth and Planetary Science Letters* 535, 116113.

(27) R. Leary, P. Umhoefer, M. Smith, T. Smith, J. Saylor, N. Riggs, G. Burr, E. Lodes, D. Foley, A. Licht, M. Mueller* & C. Baird* (2020). Provenance of Pennsylvanian-Permian sedimentary rocks associated with the Ancestral Rocky Mountains orogeny in southwestern Laurentia: implications for continental-scale Laurentian sediment transport systems. *Lithosphere* 12, 88-121.

(26) M. Mueller*, A. Licht, C. Campbell*, F. Ocakoglu, M. Taylor, L. Burch*, T. Ugrai, M. Kaya*, B. Kurtoglu, P. Coster, G. Metais & K.C. Beard (2019). Collision chronology along the Izmir-Ankara-Erzincan suture zone: Insights from the Sarcaçkaya Basin, western Anatolia. *Tectonics* 38 (10), 3652-3674.

(25) J. Westerweel*, P. Roperch, A. Licht, G. Dupont-Nivet, Zaw Win, F. Poblete, Hnin Hnin Swe*, Myat Kaithy*, Day Wa Aung (2019). Paleomagnetic data from the Burma Terrane (Myanmar) constrain the geodynamic evolution of the India-Asia collision. *Nature Geoscience* 12, 863-868.

(24) F. Polette, A. Cincotta, D.J. Batten, P. Depuydt, A. Licht, D. Neraudeau, G. Garcia & X. Valentin (2019). Palynological assemblage from the lower Cenomanian plant-bearing Lagerstätte of Jaunay-Clan-Ormeau-Saint-Denis (Vienne, western France): stratigraphic and paleoenvironmental implications. *Review of Palaeobotany and Palynology* 271, 104102.

(23) Z. Wang, H. Chunju, A. Licht, R. Zhang & D.B. Kemp (2019). Middle to late Miocene eccentricity forcing on lake expansion in NE Tibet: implications for the evolution of the East Asian monsoon. *Geophysical Research Letters* 46, 6926-6935.

(22) S. Botsyun, P. Sepulchre, Y. Donnadieu, C. Risi, A. Licht, & J.K. Caves (2019). Revisited Paleolimnology Data Show Low Tibetan Plateau Elevation during the Eocene. *Science* 363 (6430), eaq1436.

(21) N. Meijer*, G. Dupont-Nivet, H.A. Abels, M. Kaya*, A. Licht, M. Xiao, Y. Zhang, P. Roperch, M. Poujol, Z. Lai & Z. Guo (2019). Central Asia moisture modulated by proto-

- Paratethys Sea incursions since the Early Eocene. *Earth and Planetary Science Letters* 510, 73-84.
- (20) M. Page*, A. Licht, G. Dupont-Nivet, N. Meijer*, A. Schauer, K. Huntington, D. Bajnai, J. Fiebig, A. Mulch, & Z. Guo (2019). Synchronous cooling and decline in monsoonal rainfall in NE Tibet through the fall into the Oligocene Icehouse. *Geology* 47 (3), 203-206.
- (19) A. Licht, G. Dupont-Nivet, Zaw Win, Hnin Hnin Swe, Myat Kaithy, P. Roperch, D. Park*, V. Littell*, J. Westerweel, D. Jones*, F. Poblete, Day Wa Aung, H. Huang, C. Hoon, & Kyang Sein (2019). Paleogene evolution of the Burmese forearc basin and implications for the history of India-Asia convergence. *GSA Bulletin* 131 (5-6), 730-748.
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OTHER PUBLICATIONS

Articles in large-audience journals and books:

- A. Boura, N. Gentis, D. De Franceschi, A. Licht (2022). Bois fossile et mousson asiatique. in *Paléontologie d'aujourd'hui*, Edp Sciences, 272p.
- A. Licht (2016). La mousson asiatique remontée à 40 millions d'années. in *Encyclopaedia Universalis 2016* (French edition), Encyclopaedia Britannica, Chicago U.S., 331-332.

Field guides:

- P. Coster, S. Legal, P. Leonide, A. Licht, B. Suchéras-Marx (2022). INA18 Luberon fieldguide (2-day geological excursion in the Luberon Geological Reserve).

International medias speaking about my scientific works:

- *NBC News, Business Insider, Le Figaro* (in French), *Libération* (in French), *La Méthode Scientifique* (Science radio show in French) (Winter 2022).
- *The Economist, the Times of India, The Business Spectator, Pour La Science* (in French), *L'Est Republicain* (in French) (September 2014).
- *The International Business Time, Science Daily* (September 2016)
- *ScienceNews* (March 2019)

PARTICIPATION IN INTERNATIONAL CONFERENCES

- **Theme Co-chair** at Goldschmidt 2023 (Lyon). Theme 9: Earth surface processes from erosion to climate change.
- **Co-organizer** of the 2022 Greenice workshop on the Eocene-Oligocene Transition in France (France; October 2022).
- **Organisation committee member** of the 2020 American Quaternary Association conference meeting, Seattle (USA; June 2020).
- **Co-convener** of the 2016, 2017, 2018, and 2019 scientific sessions on the Asian Monsoons at the European Geosciences Union conference meeting in Vienna.
- **Co-convener** of the 2018 scientific session on the Irrawaddy River at the American Geophysical Union conference meeting in Washington DC.
- **Main convener** of the 2017 scientific session on the Cenozoic paleoclimates and Ecosystem at the Geological Society of America conference meeting in Seattle.
- **Organisation committee member** of the 2016 Basin Geology symposium of the Turkish association of Sedimentology, Eskisehir (Turkey; September 2016).
- A. Licht, H. Huang, Zaw Win, Day Wa Aung, C. Hoon, R. Morley, J. Westerweel, A. Boura & G. Dupont-Nivet. Near-equatorial paleoenvironmental reconstructions of the Eocene Bengal Bay: insights from Burmese sedimentary archives and implications for past monsoonal evolution. *International Paleontology Congress (IPC) 6*, Khon Kaen, Thailand (talk, November 2022).
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- G. Dupont-Nivet, D. Ruiz, J. Aminov, T. van der Linden, B. Gailleton, P. Roperch, F. Poblete, N. Meijer, M. Kaya, A. Licht, A. Gébelin, X. Fang, D. van Hinsbergen. Paleogene Paleogeography of the India-Asia collision reconstructed with Terra Antiqua. *Asian climate, tectonics and biodiversity hybrid conference*, London, UK (talk, September 2022).
- N. Meijer, A. Licht, G. Dupont-Nivet, P. Roperch, A. Rohrmann, A. Sun, A. Woutersen, M. Tagliavento, J. Brugger, C. Hoon, G. Benevento, S. Fritz, J. Fiebig, A. Mulch. Eocene hydroclimatic evolution recorded in the Xining Basin, NE Tibet. *Asian climate, tectonics and biodiversity hybrid conference*, London, UK (talk, September 2022).
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- J.K., Caves-Rugenstein, A. Winkler, S.H. Kramer, T. Kukla, D.E. Ibarra, **A. Licht**, P. Chamberlain, Exceptional greening of mid-latitude ecosystems during Cenozoic warm intervals. *Midcontinent Paleobotany 2020 Symposium*, online (oral, May 2020)
- N. Meijer, G. Dupont-Nivet, **A. Licht**, P. Roperch, A. Rohrmann, A. Woutersen, C. Hoorn, N. Barbolini, A. Sun, H.A. Abels, H. Meyer, N. Nowaczyk. Intensified hydrological cycle during the Early Eocene Climatic Optimum (EECO) recorded in the Xining Basin, NE Tibet. *EGU 2020 Meeting*, online (oral, May 2020).
- G. Dupont-Nivet, N. Meijer, M. Kaya, J. Westerweel, D. Tardif, N. Barbolini, A. Rohrmann, J. Aminov, D. Ruiz, A. Woutersen, H. Huang, F. Poblete, **A. Licht**, P. Roperch, C. Hoorn, J.N. Proust, F. Fluteau, Y. Donnadieu and S. Guillot. Asian paleoenvironments, paleogeography and paleobiodiversity interactions during the Greenhouse-Icehouse transition. *Egu 2020 Meeting*, online (oral, May 2020).
- P. Ballato, **A. Licht**, K. Huntington, A. Schauer, A. Mulch, G. Heidarzadeh, M. Paknia, J. Hassanzadeh, M. Mattei, M. Ghassemi, and M. Strecker Constraints on the Timing of Surface Uplift of the Iranian Plateau (Arabia-Eurasian Collision Zone) from Clumped Isotope Thermometry on Pedogenic Carbonates. *AGU 2020 Meeting*, online (oral, May 2020).
- J. Westerweel, P. Roperch, **A. Licht**, G. Dupont-Nivet, Zaw Win, F. Poblete, H. Huang, Hnin Hnin Swe, Myat Kaithy, C. Hoorn, Day Wa Aung. India-Asia collision paleogeography constrained by Burma Terrane (Myanmar) Late Cretaceous to Miocene paleomagnetic data. *Egu 2020 Meeting*, Vienna, Austria (oral, May 2020)
- M. Mueller, **A. Licht**, F. Ocakoğlu, C. Campbell, M. Kaya, B. Kurtoglu, G. Akşit, M. Taylor, G. Métais, P. Coster, K.C. Beard. Western Anatolian Record of Subduction Initiation through Collision. *Egu 2020 Meeting*, online (oral, May 2020).
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- J. Westerweel, **A. Licht**, N. Cogne, P. Roperch, G. Dupont-Nivet, Zaw Win, Hnin Hnin Swe, Myat Kaithy, Day Wa Aung, H. Huang, C. Hoorn. Cenozoic deformation history of the Burma Terrane constrained by the sedimentary record of the Chindwin Basin. *GeoMyanmar 2020 conference meeting*, Yangon, Myanmar (oral, January 2020).
- P. Roperch, J. Westerweel, **A. Licht**, G. Dupont-Nivet, Zaw Win, Hnin Hnin Swe, Myat Kaithy, T. Ugrai, V. Littell, Day Wa Aung, H. Huang, C. Hoorn. The India-Asia collision seen from Myanmar. *GeoMyanmar 2020 conference meeting*, Yangon, Myanmar (oral, January 2020).
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OTHER ACADEMIC ACTIVITIES

Reviewer for peer-reviewed journals: *Nature*, *Science*, *Nature Communications*, *GSA Bulletin*, *Earth and Planetary Science Letters*, *Geology*, *Tectonics*, *Journal of Asian Earth Sciences*, *Geophysical Research Letters*, *Geochemistry*, *Geophysics*, *Geosystems*, *Palaogeography*, *Palaoclimatology*, *Palaeoecology*, *Climate of the Past*, *Journal of the Geological Society London*.

Reviewer for funding agencies and institutes: CNRS-INSU (France), Société Géologique de France (France), DFG (Germany), NSF (USA), RRF (USA), PRF (USA), SNF (Switzerland).

Coeditor of special volume *Reaching New Heights: Recent Progress in Paleotopography* for the journal *Frontiers in Earth Science* (2020-2021).

Art & Science project with professional photographer Clément Chapillon, entitled "Dans L'épaisseur du temps".