

# Joseph Gaudard

Full list of publications

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[jogaudard.github.io/CV\\_jgaudard/](https://jogaudard.github.io/CV_jgaudard/)

## PEER-REVIEWED PUBLICATIONS

- Halbritter, A. H., **Gaudard, J.**, Sandsten, H., Petrauskaite, I., Berthelsen, S., Austrheim, G., Dahle, I., Klanderud, K., Krüger, L. C., Little, E., Telford, R. J., & Vandvik, V. (2026). Plant community, ecosystem, and abiotic data from a global change experiment in mountain grasslands in Norway. *Scientific Data*. <https://doi.org/10.1038/s41597-025-06503-6>
- Gaudard, J.**, Telford, R. J., Chacon-Labela, J., Dawson, H. R., Enquist, B. J., Töpfer, J. P., Trepel, J., Vandvik, V., Baumane, M., Birkeli, K., Holle, M. J. M., Hupp, J. R., Santos-Andrade, P. E., Satriawan, T. W., & Halbritter, A. H. (2025). fluxible: An R package to process ecosystem gas fluxes from closed-loop chambers in an automated and reproducible way. *Methods in Ecology and Evolution*. <https://doi.org/10.1111/2041-210X.70161>
- Vandvik, V., Halbritter, A. H., Macias-Fauria, M., Maitner, B. S., Michaletz, S. T., Telford, R. J., Bison, N., Chacon-Labela, J., Cotner, S., Egelkraut, D., Garen, J., **Gaudard, J.**, Geange, S. R., Rosati, M. A., Andersen, E. A. S., Ahler, S. J., Atkinson, J., Baumane, M., Bradler, P. M., Dawson, H. R., Eckberg, J., Elsy, A. D., Erkelenz, J., Eshelman, S. E., Guclu, C., Gullvåg, R., Gya, R., Hartford, S., Hayden, M. T., Holle, M. J. M., Kullberg, A. T., Lepley, K., Correia, M., Löwenstein, C. E., Maré, C., Mauki, D., Navarro, J., Oberholzer, B., Olivier, B., Olson, A. N., Ray, C. A., von Oppen, J., Vorstenbosch, T., Wang, J. A., & Enquist, B. J. (2025). Plant traits and associated ecological data from global change experiments and climate gradients in Norway. *Scientific Data*, 12(1), 1477. <https://doi.org/10.1038/s41597-025-05509-4>
- Halbritter, A. H., Vandvik, V., Cotner, S. H., Farfan-Rios, W., Maitner, B. S., Michaletz, S. T., Oliveras Menor, I., Telford, R. J., Ccahuana, A., Cruz, R., Sallo-Bravo, J., Santos-Andrade, P. E., Vilca-Bustamante, L. L., Castorena, M., Chacón-Labela, J., Christiansen, C. T., Duran, S. M., Egelkraut, D. D., Gya, R., Haugum, S. V., Seltzer, L., Silman, M. R., Strydom, T., Spiegel, M. P., Barros, A., Birkeli, K., Boakye, M., Chiappero, F., Chmurzynski, A., Garen, J. C., **Gaudard, J.**, Gauthier, T.-L. J., Geange, S. R., Gonzales, F. N., Henn, J. J., Hošková, K., Isaksen, A., Jessup, L. H., Johnson, W., Kusch, E., Lepley, K., Lift, M., Martyn, T. E., Muñoz Mazon, M., Middleton, S. L., Quinteros Casaverde, N. L., Navarro, J., Zepeda, V., Ocampo-Zuleta, K., Palomino-Cardenas, A. C., Pastor Ploskonka, S., Pierfederici, M. E., Pinelli, V., Rickenback, J., Roos, R. E., Rui, H. S., Sanchez Diaz, E., Sánchez-Tapia, A., Smith, A., Urquiaga-Flores, E., von Oppen, J., & Enquist, B. J. (2024). Plant trait and vegetation data along a 1314 m elevation gradient with fire history in Puna grasslands, Perú. *Scientific Data*, 11(1), 225. <https://doi.org/10.1038/s41597-024-02980-3>
- Maes, S. L., Dietrich, J., Midolo, G., Schwieger, S., Kummu, M., Vandvik, V., Aerts, R., Althuizen, I. H. J., Biasi, C., Björk, R. G., Böhner, H., Carbognani, M., Chiari,

G., Christiansen, C. T., Clemmensen, K. E., Cooper, E. J., Cornelissen, J. H. C., Elberling, B., Faubert, P., Fetcher, N., Forte, T. G. W., **Gaudard, J.**, Gavazov, K., Guan, Z., Gumundsson, J., Gya, R., Hallin, S., Hansen, B. B., Haugum, S. V., He, J.-S., Hicks Pries, C., Hovenden, M. J., Jalava, M., Jónsdóttir, I. S., Juhanson, J., Jung, J. Y., Kaarlejärvi, E., Kwon, M. J., Lamprecht, R. E., Le Moullec, M., Lee, H., Marushchak, M. E., Michelsen, A., Munir, T. M., Myrsky, E. M., Nielsen, C. S., Nyberg, M., Olofsson, J., Óskarsson, H., Parker, T. C., Pedersen, E. P., Petit Bon, M., Petraglia, A., Raundrup, K., Ravn, N. M. R., Rinnan, R., Rodenhizer, H., Ryde, I., Schmidt, N. M., Schuur, E. a. G., Sjögersten, S., Stark, S., Strack, M., Tang, J., Tolvanen, A., Töpper, J. P., Väisänen, M. K., van Logtestijn, R. S. P., Voigt, C., Walz, J., Weedon, J. T., Yang, Y., Ylänne, H., Björkman, M. P., Sarneel, J. M., & Dorrepaal, E. (2024). Environmental drivers of increased ecosystem respiration in a warming tundra. *Nature*, 1–9. <https://doi.org/10.1038/s41586-024-07274-7>

Belien, E., Rossi, S., Morin, H., Deslauriers, A., & **Gaudard, J.** (2014). Testing foliar absorption in black spruce [*Picea mariana* (Mill.) BSP] saplings. *American Journal of Experimental Biology*, 1, 52–60.

## SUBMITTED PUBLICATIONS

Cooper, N., Allen, B. J., Almaani, N., Altwegg, R., Balogh, J., Balti, H., Barber, R. A., Barbosa de Sousa, M. E., Barreat, J. G. N., Barrett, C. F., Bates, R., Beale, A. M., Bliard, L., Blömer, N., Borovyk, D., Bunnenberg, C., Bygate, E. A., Cash, L., Chatterjee, N., Chen, T.-W., Chiti, A., Chung, S. S.-W., Chuquillanqui, H., Ciezarek, A., Clarkson, A., Codling, E., Corradini, A., Cowans, A., Dartnell, S., Davis, A. J., De Benedictis, L. L. M., Deme, G. G., Devenish, C., Dimri, S., Dittrich, C., Dorheim, K. R., Drage, H. B., Dueñas, M.-A., Efstathiou, A., Evans, L. C., Ferreira Santos, M. E., Foxx, A. J., Gardiner, R. J., **Gaudard, J.**, Gearty, W., Graham, L., Graves, V. M., Green, H. M., Greensmith, R. V., Gérard, S., Halbritter, A. H., Hartke, T. R., Hechler, R. M., Hindle, B. J., Hsing, P.-Y., Illanas, S., Iossa, G., Jackson, E. E., Jones, L. A., Jones, F. A., Jones, J. A., Jupke, J. F., Kaunain, N. N., Kennedy, R., Kerr, M. R., Kester, N. J., Klaassen, M., Konecka, O., Krasnow, R., Kukowski, R., Kumar, A., Kuminski, R., Kuzey, K., Laccetti, L., Lagisz, M., Latifi, H., Lecomte, N., Luchmun, K. D., Lévêque, A., Markitantova, A., Marshall, B. M., Menares-Barraza, E., Mertens, D., Mesbahi, G., Meyer, J., Millard, J., Montilla, L. M., Moreira, B., Morera, A., Murali, G., Murray, M. P., Märker, F., Nagahawatte, K., Narraway, C. L., Niven, H. I., Nytko, A. G., Ohse, B., Patterson, S., Phillips, H. R., Pienaar, R., Pollo, P., Ponce, A., Porto, L. M., Preston, E. F., Prioul, C. S., Prylutska, A., Prylutskyi, O., Radman-Daw, K., Raharison, A. M., Rao, R., Read, F. R., Record, S., Rees, W., Reeve, R., Rhodes, H., Rocabado, C., Rouviere, A., Rönnfeldt, A., Sagouis, A., Sakhalkar, S. P., Santos, G. S., Shakur, M. A., Shaw, R., Siegieda, D., Šmídová, L., Simmons, B. I., Sisley, H. G., Sánchez-Tójar, A., Taboada, F. G., Taylor, N. G., Teague, H., Thrikkadeeri, K., Thuroczy, V., Varah, A., Vinay, K., Watrobska, C. M., Williams, Z. B., & Windecker, S. M. (2026). Data-and code-archiving in the british ecological society journals: Present status and recommendations for future improvements. Submitted to *Methods in Ecology and Evolution*. <https://doi.org/10.32942/X26W9V>

Schwieger, S., Dietrich, J., Björkman, M. P., Sarneel, J. M., Li, B., White, J., Althuizen, I. H. J., Biasi, C., Björk, R. G., Böhner, H., Bremset Hansen, B., Carbognani, M., Chiari, G., Christiansen, C. T., Cooper, E. J., Cornelissen, H.,

D'Imperio, L., Dorrepaal, E., Elberling, B., Faubert, P., Fetcher, N., Forte, T. G. W., **Gaudard, J.**, Gavazov, K., Guan, Z.-H., Guðmundsson, J., Haugum, S. V., He, J.-S., Hicks Pries, C., Hovenden, M., Lang, S. I., Jespersen, G., Jónsdóttir, I. S., Jung, J. Y., Khitun, O., Kortegaard Danielsen, B., Lamprecht, R., Le Moullec, M., Lee, H., Marushchak, M. E., Michelsen, A., Munir, T., Myrsky, E., Newsham, K. K., Nyberg, M., Oberbauer, S. F., Olivas, P., Olofsson, J., Óskarsson, H., Parker, T. C., Petit Bon, M., Petraglia, A., Pickering Pedersen, E., Raundrup, K., Ravn, N. R., Rinnan, R., Rodenhizer, H., Ryde, I., Salazar, A., Schmidt, N. M., Schuur, T., Sjögersten, S., Skov Nielsen, C., Stark, S., Strack, M., Tang, J., Toet, S., Tolvanen, A., Väisänen, M., Van Logtestijn, R., Vandvik, V., Voigt, C., Walz, J., Welker, J. M., Yang, Y., Yläne, H., & Maes, S. L. (2026). TundraFlux: A database of ecosystem respiration with biotic and abiotic metadata from arctic and alpine tundra warming experiments. *Earth System Science Data Discussions*. in review. <https://doi.org/10.5194/essd-2025-837>

## R PACKAGES

- Gaudard, J.** (2026). readosense: Imports log and data files from Eosense flux chambers. <https://doi.org/10.32614/CRAN.package.readosense>
- Gaudard, J.** (2025). licoread: Reads raw files from li-COR gas analyzers [Manual]. <https://doi.org/10.32614/CRAN.package.licoread>
- Gaudard, J.**, & Telford, R. J. (2025). fluxible: Ecosystem gas fluxes calculations for closed loop chamber setup [Manual]. <https://doi.org/10.32614/CRAN.package.fluxible>

## OTHER PUBLICATIONS

- Gaudard, J.** (2025). Some technical tricks to write a PhD thesis in quarto. [https://github.com/jogaudard/phdthesis\\_toolbox](https://github.com/jogaudard/phdthesis_toolbox)
- Gaudard, J.** (2025). Template to make your CV as a GitHub page (and other tools for early career researchers). [https://github.com/jogaudard/ecr\\_toolbox](https://github.com/jogaudard/ecr_toolbox)
- Gaudard, J.**, & Soulé, J. (2022). BIOutside: Field safety for biologists in the wild. <https://bioutside.w.uib.no>
- Gaudard, J.** (2021). Décrypter: Cycle du carbone dans les écosystèmes froids. *Carnets d'Aventures*, 63.
- Cotner, S., Enquist, B. J., Chacon, J., Maitner, B., Farfan-Rios, W., Michaletz, S., Garen, J., Gauthier, T.-L. J., Vandvik, V., Gya, R., Halbritter, A., **Gaudard, J.**, Hošková, K., Pierfederici, M. E., Quinteros-Casaverde, N. L., Diaz, E. S., Jessup, L., Strydom, T., & Oppen, J. V. (2020). International scientists need better support during global emergencies. *Times Higher Education*.
- Gaudard, J.** (2019). Carbon ecosystem-atmosphere exchange in arctic tundra in response to environmental changes. Effects of increased water and phosphorus availability on carbon dioxide and methane fluxes [Master's thesis]. University of Copenhagen (UCPH) / University of Life Sciences in Vienna (BOKU). Supervisors: Assoc. Prof. Dr. Herbert Formayer (BOKU), Prof. Anders Michelsen (UCPH), PhD Emily Pickering Pedersen (UCPH).