

ELLEN FRY
Biology
Email: Fryel@edgehill.ac.uk



Biography

I am an ecosystem ecologist interested in plant-soil interactions. I mainly work on grassland soils, with some peatlands thrown in as well. My overarching aim is to improve our understanding of the way plants build their specific soil community, in order to restore grassland form and function in degraded lands. My work has taken me across the world, and into many interesting socio-ecological systems, including that of Inner Mongolia and Western Kenya. Each presents its own unique challenges, opportunities and questions.

At Edge Hill my research takes three related paths:

1. How do plant functional traits inform soil food web assembly, dynamics and consequent functions? This takes place on a well-established experiment on calcareous grassland on Salisbury Plain.
2. How do plant-soil feedbacks operate in the real world? What effect do drivers such as climate change have on them?
3. Can we improve bioengineering of the soil food web for agricultural and grassland restoration purposes? Could vermicompost hold the key? Could bioengineering in a non-invasive way shift plant community dynamics to restore restoration outcomes?

Employment

Senior Lecturer in Biology

Biology
Edge Hill University
6 Apr 2021 → present

Post-Doctoral Research Associate

University of Manchester
Manchester, M13 9PT, United Kingdom
1 Aug 2019 → 31 Mar 2021

Post-Doctoral Research Associate

University of Manchester
Manchester, M13 9PT, United Kingdom
1 Apr 2017 → 31 Jul 2019

Post-Doctoral Research Associate

University of Manchester
Manchester, M13 9PT, United Kingdom
4 Feb 2013 → 31 Mar 2031

Endeavour Research Fellow

Western Sydney University
Australia
1 Feb 2012 → 16 Jun 2012

Research outputs

Revegetation significantly increased the bacterial-fungal interactions in different successional stages of alpine grasslands on the Qinghai-Tibetan Plateau

Gao, X., Dong, S., Xu, Y., Li, Y., Li, S., Wu, S., Shen, H., Liu, S. & FRY, ELLEN., 1 Oct 2021, In: *Catena*. 205, p. 105385-105385.

Combatting global grassland degradation

Bardgett, R. & FRY, ELLEN., 7 Sep 2021, (E-pub ahead of print) In: *Nature Reviews Earth and Environment*.

Do soil depth and plant community composition interact to modify the resistance and resilience of grassland ecosystem functioning to drought?

FRY, ELLEN., Wilkinson, A., Johnson, D., Prtichard, W. J., Ostle, N., Baggs, E. & Bardgett, R., 27 Jul 2021, (E-pub ahead of print) In: *Ecology and Evolution*. p. 1-14

Historic grazing enhances root-foraging plasticity rather than nitrogen absorbability in clonal offspring of *Leymus chinensis*

Li, X., Hu, N., Yin, J., Ren, W. & FRY, ELLEN., 15 Jun 2021, (E-pub ahead of print) In: *Plant and Soil*.

Bypass and hyperbole in soil science: A perspective from the next generation of soil scientists

Portell, X., Sauzet, O., Balseiro-Romero, M., Benard, P., Cardinael, R., Couradeau, E., Danra, D. D., Evans, D. L., Fry, E. L., Hammer, E. C., Mamba, D., Merino-Martín, L., Mueller, C. W., Paradelo, M., Rees, F., M. W. Rossi, L., Schmidt, H., Schnee, L. S., Védère, C. & Vidal, A., 31 Jan 2021, In: *European Journal of Soil Science*. 72, 1, p. 31-34 4 p.

Adapting to Environmental Change

FRY, ELLEN., Greenwood, B. & Zhu, F., 12 Mar 2020, *Microbiomes of Soils, Plants and Animals*. Antwis, R. E., Harrison, X. A. & Cox, M. J. (eds.). Cambridge University Press, p. 154-181

TRY plant trait database – enhanced coverage and open access

Kattge, J., Bönisch, G., Díaz, S., Lavorel, S., Prentice, I. C., Leadley, P., Tautenhahn, S., Werner, G. D. A., Aakala, T., Abedi, M., Acosta, A. T. R., Adamidis, G. C., Adamson, K., Aiba, M., Albert, C. H., Alcántara, J. M., Alcázar, C., Aleixo, I., Ali, H., Amiaud, B. & 697 others, Ammer, C., Amoroso, M. M., Anand, M., Anderson, C., Anten, N., Antos, J., Apgaua, D. M. G., Ashman, T.-L., Asmara, D. H., Asner, G. P., Aspinwall, M., Atkin, O., Aubin, I., Baastrop-Spohr, L., Bahalkeh, K., Bahn, M., Baker, W. J., Bakker, J. P., Baldocchi, D., Baltzer, J., Banerjee, A., Baranger, A., Barlow, J., Barneche, D. R., Baruch, Z., Bastianelli, D., Battles, J., Bauerle, W., Bauters, M., Bazzato, E., Beckmann, M., Beekman, H., Beierkuhnlein, C., Bekker, R., Belfry, G., Belluau, M., Beloiu, M., Benavides, R., Benomar, L., Berdugo-Lattke, M. L., Berenguer, E., Bergamin, R., Bergmann, J., Bergmann Carlucci, M., Berner, L., Bernhardt-Römermann, M., Bigler, C., Bjorkman, A. D., Blackman, C., Blanco, C., Blonder, B., Blumenthal, D., Bocanegra-González, K. T., Boeckx, P., Bohlman, S., Böhning-Gaese, K., Boisvert-Marsh, L., Bond, W., Bond-Lamberty, B., Boom, A., Boonman, C. C. F., Bordin, K., Boughton, E. H., Boukili, V., Bowman, D. M. J. S., Bravo, S., Brendel, M. R., Broadley, M. R., Brown, K. A., Bruelheide, H., Brumlich, F., Bruun, H. H., Bruy, D., Buchanan, S. W., Bucher, S. F., Buchmann, N., Buitenwerf, R., Bunker, D. E., Bürger, J., Burrascano, S., Burslem, D. F. R. P., Butterfield, B. J., Byun, C., Marques, M., Scalon, M. C., Caccianiga, M., Cadotte, M., Cailleret, M., Camac, J., Camarero, J. J., Company, C., Campetella, G., Campos, J. A., Cano-Arboleda, L., Canullo, R., Carbognani, M., Carvalho, F., Casanoves, F., Castagnyrol, B., Catford, J. A., Cavender-Bares, J., Cerabolini, B. E. L., Cervellini, M., Chacón-Madrigal, E., Chapin, K., Chapin, F. S., Chelli, S., Chen, A., Cherubini, P., Chianucci, F., Choat, B., Chung, K.-S., Chytrý, M., Ciccarelli, D., Coll, L., Collins, C. G., Conti, L., Coomes, D., Cornelissen, J. H. C., Cornwell, W. K., Corona, P., Coyea, M., Craine, J., Craven, D., Cromsigt, J. P. G. M., Csecerits, A., Cufar, K., Cuntz, M., da Silva, A. C., Dahlin, K. M., Dainese, M., Dalke, I., Dalle Fratte, M., Dang-Le, A. T., Danilhelka, J., Dannoura, M., Dawson, S., de Beer, A. J., De Frutos, A., De Long, J. R., Dechant, B., Delagrangé, S., Delpierre, N., Derroire, G., Dias, A. S., Diaz-Toribio, M. H., Dimitrakopoulos, P. G., Dobrowolski, M., Doktor, D., Dřevojan, P., Dong, N., Dransfield, J., Dressler, S., Duarte, L., Ducouret, E., Dullinger, S., Durka, W., Duursma, R., Dymova, O., E-Vojtkó, A., Eckstein, R. L., Ejtehadi, H., Elser, J., Emilio, T., Engemann, K., Erfanian, M. B., Erfmeier, A., Esquivel-Muelbert, A., Esser, G., Estiarte, M., Domingues, T. F., Fagan, W. F., Fagúndez, J., Falster, D. S., Fan, Y., Fang, J., Farris, E., Fazlioglu, F., Feng, Y., Fernandez-Mendez, F., Ferrara, C., Ferreira, J., Fidelis, A., Finegan, B., Firn, J., Flowers, T. J., Flynn, D. F. B., Fontana, V., Forey, E., Forgiarini, C., François, L., Frangipani, M., Frank, D., Frenette-Dussault, C., Freschet, G. T., Fry, E. L., Fyllas, N. M., Mazzochini, G. G., Gachet, S., Gallagher, R., Ganade, G., Ganga, F., García-Palacios, P., Gargaglione, V., Garnier, E., Garrido, J. L., de Gasper, A. L., Gea-Izquierdo, G., Gibson, D., Gillison, A. N., Giroldo, A., Glasenhardt, M.-C., Gleason, S., Gliesch, M., Goldberg, E., Gödel, B., Gonzalez-Akre, E., Gonzalez-Andujar, J. L., González-Melo, A., González-Robles, A., Graae, B. J., Granda, E., Green, W. A., Gregor, T., Gross, N., Guerin, G. R., Günther, A., Gutiérrez, A. G., Haddock, L., Haines, A., Hall, J., Hambuckers, A., Han, W., Harrison, S. P., Hattingh, W., Hawes, J. E., He, T., He, P., Heberling, J. M., Helm, A., Hempel, S., Hentschel, J., Hérault, B., Hereş, A.-M., Herz, K., Heuertz, M., Hickler, T., Hietz, P., Higuchi, P., Hipp, A. L., Hirons, A., Hock, M., Hogan, J. A., Holl, K., Honnay, O., Hornstein, D., Hou, E., Hough-Snee, N., Hovstad, K. A., Ichie, T., Igić, B., Illa, E., Isaac, M., Ishihara, M., Ivanov, L., Ivanova, L., Iversen, C. M., Izquierdo, J., Jackson, R. B., Jackson, B., Jactel, H., Jagodzinski, A. M., Jandt, U., Jansen, S., Jenkins, T., Jentsch, A., Jespersen, J. R. P., Jiang, G.-F., Johansen, J. L., Johnson, D., Jokela, E. J., Joly, C. A., Jordan, G. J., Joseph, G. S., Junaedi, D., Junker, R. R., Justes, E., Kabzems, R., Kane, J., Kaplan, Z., Kattenborn, T., Kavelenova, L., Kearsley, E., Kempel, A., Kenzo, T., Kerkhoff, A., Khalil, M. I., Kinlock, N. L., Kissling, W. D., Kitajima,

K., Kitzberger, T., Kjäller, R., Klein, T., Kleyer, M., Klimešová, J., Klipel, J., Kloeppe, B., Klotz, S., Knops, J. M. H., Kohyama, T., Koike, F., Kollmann, J., Komac, B., Komatsu, K., König, C., Kraft, N. J. B., Kramer, K., Kreft, H., Kühn, I., Kumarathunge, D., Kuppler, J., Kurokawa, H., Kurosawa, Y., Kuyah, S., Laclau, J-P., Laflour, B., Lallai, E., Lamb, E., Lamprecht, A., Laughlin, D., Le Bagousse-Pinguet, Y., le Maire, G., le Roux, P. C., le Roux, E., Lee, T., Lens, F., Lewis, S. L., Lhotsky, B., Li, Y., Li, X., Lichstein, J. W., Liebergesell, M., Lim, J. Y., Lin, Y-S., Linares, J. C., Liu, C., Liu, D., Liu, U., Livingstone, S., Llusà, J., Lohbeck, M., López-García, Á., Lopez-Gonzalez, G., Lososová, Z., Louault, F., Lukács, B. A., Lukeš, P., Luo, Y., Lussu, M., Ma, S., Maciel Rabelo Pereira, C., Mack, M., Maire, V., Mäkelä, A., Mäkinen, H., Malhado, A. C. M., Mallik, A., Manning, P., Manzoni, S., Marchetti, Z., Marchino, L., Marcilio-Silva, V., Marcon, E., Marignani, M., Markesteijn, L., Martínez-Garza, C., Martínez-Vilalta, J., Mašková, T., Mason, K., Mason, N., Massad, T. J., Masse, J., Mayrose, I., McCarthy, J., McCormack, M. L., McCulloh, K., McFadden, I. R., McGill, B. J., McPartland, M. Y., Medeiros, J. S., Medlyn, B., Meerts, P., Mehrabi, Z., Meir, P., Melo, F. P. L., Mencuccini, M., Meredieu, C., Messier, J., Mészáros, I., Metsaranta, J., Michalet, S. T., Michelaki, C., Migalina, S., Milla, R., Miller, J. E. D., Minden, V., Ming, R., Mokany, K., Moles, A. T., Molnár, A., Molofsky, J., Molz, M., Montgomery, R. A., Monty, A., Moravcová, L., Moreno-Martinez, A., Moretti, M., Mori, A. S., Mori, S., Morris, D., Morrison, J., Mucina, L., Mueller, S., Muir, C. D., Müller, S. C., Munoz, F., Myers-Smith, I. H., Myster, R. W., Nagano, M., Naidu, S., Narayanan, A., Natesan, B., Negoita, L., Nelson, A. S., Neuschulz, E. L., Ni, J., Niedrist, G., Nieto, J., Niinemets, Ü., Nolan, R., Nottebrock, H., Nouvellon, Y., Novakovskiy, A., Nystuen, K. O., O'Grady, A., O'Hara, K., O'Reilly-Nugent, A., Oakley, S., Oberhuber, W., Ohtsuka, T., Oliveira, R., Öllerer, K., Olson, M. E., Onipchenko, V., Onoda, Y., Onstein, R. E., Ordonez, J. C., Osada, N., Ostonen, I., Ottaviani, G., Otto, S., Overbeck, G. E., Ozinga, W. A., Pahl, A. T., Paine, C. E. T., Pakeman, R. J., Papageorgiou, A. C., Parfionova, E., Pärtel, M., Patacca, M., Paula, S., Paule, J., Pauli, H., Pausas, J. G., Peco, B., Penuelas, J., Perea, A., Peri, P. L., Petisco-Souza, A. C., Petraglia, A., Petritan, A. M., Phillips, O. L., Pierce, S., Pillar, V. D., Pisek, J., Pomogaybin, A., Poorter, H., Portsmouth, A., Poschlod, P., Potvin, C., Pounds, D., Powell, A. S., Power, S. A., Prinzing, A., Puglielli, G., Pyšek, P., Ravel, V., Rammig, A., Ransijn, J., Ray, C. A., Reich, P. B., Reichstein, M., Reid, D. E. B., Réjou-Méchain, M., de Dios, V. 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E., Soudzilovskaia, N. A., Souza, A. F., Spasojevic, M., Sperandii, M. G., Stan, A. B., Stegen, J., Steinbauer, K., Stephan, J. G., Sterck, F., Stojanovic, D. B., Strydom, T., Suarez, M. L., Svenning, J-C., Svitková, I., Svitok, M., Svoboda, M., Swaine, E., Swenson, N., Tabarelli, M., Takagi, K., Tappeiner, U., Tarifa, R., Tauougourdeau, S., Tavanoglu, C., te Beest, M., Tedersoo, L., Thiffault, N., Thom, D., Thornton, P. E., Thuiller, W., Tichý, L., Tissue, D., Tjoelker, M. G., Tng, D. Y. P., Tobias, J., Török, P., Tarin, T., Torres-Ruiz, J. M., Tóthmérész, B., Treurnicht, M., Trivellone, V., Trolliet, F., Trotsiuk, V., Tsakalos, J. L., Tsiripidis, I., Tyskland, N., Umehara, T., Usoltsev, V., Vadeboncoeur, M., Vaezi, J., Valladares, F., Vamosi, J., van Bodegom, P. M., van Breugel, M., Van Cleemput, E., van de Weg, M., van der Merwe, S., van der Plas, F., van der Sande, M. T., van Kleunen, M., Van Meerbeek, K., Vanderwel, M., Vanselow, K. A., Vårhammar, A., Varone, L., Vasquez Valderrama, M. Y., Vassilev, K., Vellend, M., Veneklaas, E. J., Verbeeck, H., Verheyen, K., Vibrans, A., Vieira, I., Villacis, J., Violle, C., Vivek, P., Wagner, K., Waldram, M., Waldron, A., Walker, A. P., Waller, M., Walther, G., Wang, H., Wang, F., Wang, W., Watkins, H., Watkins, J., Weber, U., Weedon, J. T., Wei, L., Weigelt, P., Weiher, E., Wellstein, C., Wenk, E., Westoby, M., Westwood, A., White, P. J., Whitten, M., Williams, M., Winkler, D. E., Winter, K., Womack, C., Wright, I. J., Pinho, B. X., Ximenes, F., Yamada, T., Yamaji, K., Yanai, R., Yankov, N., Yguel, B., Zanini, K. J., Zanne, A. E., Zelený, D., Zhao, Y-P., Zheng, J., Zheng, J., Ziemnińska, K., Zirbel, C. R., Zizka, G., Zo-Bi, I. C., Zotz, G. & Wirth, C., 31 Jan 2020, In: *Global Change Biology*. p. 119-188

The Role of Plant Litter in Driving Plant-Soil Feedbacks

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Drought soil legacy overrides maternal effects on plant growth

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Data from: Drought soil legacy overrides maternal effects on plant growth

Long, J. R. D., Semchenko, M., Pritchard, W. J., Cordero, I., Fry, E. L., Jackson, B. G., Kurnosova, K., Ostle, N. J., Johnson, D., Baggs, E. M. & Bardgett, R. D., 11 Apr 2019

Using plant, microbe, and soil fauna traits to improve the predictive power of biogeochemical models

Fry, E. L., De Long, J. R., Álvarez Garrido, L., Alvarez, N., Carrillo, Y., Castañeda-Gómez, L., Chomel, M., Dondini, M., Drake, J. E., Hasegawa, S., Hortal, S., Jackson, B. G., Jiang, M., Lavalley, J. M., Medlyn, B. E., Rhymes, J., Singh, B. K., Smith, P., Anderson, I. C., Bardgett, R. D. & 2 others, Baggs, E. M. & Johnson, D., 31 Jan 2019, In: *Methods in Ecology and Evolution*. 10, 1, p. 146-157 12 p.

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De Long, J. R., Fry, E. L., Veen, G. F. & Kardol, P., 21 Jan 2019, In: *Functional Ecology*. 33, 1, p. 118-128 11 p.

Root architecture governs plasticity in response to drought

Fry, E. L., Evans, A. L., Sturrock, C. J., Bullock, J. M. & Bardgett, R. D., 1 Dec 2018, In: *Plant and Soil*. 433, 1-2, p. 189-200 12 p.

Soil multifunctionality and drought resistance are determined by plant structural traits in restoring grassland

Fry, E. L., Savage, J., Hall, A. L., Oakley, S., Pritchard, W. J., Ostle, N. J., Pywell, R. F., Bullock, J. M. & Bardgett, R. D., 31 Oct 2018, In: *Ecology*. 99, 10, p. 2260-2271 12 p.

Drought reduces floral resources for pollinators

Phillips, B. B., Shaw, R. F., Holland, M. J., Fry, E. L., Bardgett, R. D., Bullock, J. M. & Osborne, J. L., 31 Jul 2018, In: *Global Change Biology*. 24, 7, p. 3226-3235 10 p.

Plant attributes explain the distribution of soil microbial communities in two contrasting regions of the globe

Delgado-Baquerizo, M., Fry, E. L., Eldridge, D. J., de Vries, F. T., Manning, P., Hamonts, K., Kattge, J., Boenisch, G., Singh, B. K. & Bardgett, R. D., Jul 2018, In: *New Phytologist*. 219, 2, p. 574-587 14 p.

Plant communities as modulators of soil carbon storage

Fry, E. L., De Long, J. R. & Bardgett, R. D., 30 Apr 2018, *Soil Carbon Storage: Modulators, Mechanisms and Modeling*. Elsevier, p. 29-71 43 p.

Drought neutralises plant–soil feedback of two mesic grassland forbs

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Plant, soil and microbial controls on grassland diversity restoration: a long-term, multi-site mesocosm experiment

Fry, E. L., Pilgrim, E. S., Tallowin, J. R. B., Smith, R. S., Mortimer, S. R., Beaumont, D. A., Simkin, J., Harris, S. J., Shiel, R. S., Quirk, H., Harrison, K. A., Lawson, C. S., Hobbs, P. J. & Bardgett, R. D., Oct 2017, In: *Journal of Applied Ecology*. 54, 5, p. 1320-1330 11 p.

Atmospheric gas and vegetation survey data from Winklebury Hill, UK, in 2014

Fry, E., Evans, A., Savage, J., Bardgett, R., Ostle, N., Pywell, R., Bullock, J. M. & Oakley, S., 10 Jan 2017

Ecosystem function and vegetation data from Parsonage Down, UK, in 2013

Fry, E., Evans, A., Savage, J., Bardgett, R., Ostle, N., Pywell, R. & Bullock, J. M., 10 Jan 2017

Soil nutrient data from Winklebury Hill, UK, in 2014

Fry, E., Evans, A., Savage, J., Bardgett, R., Ostle, N., Pywell, R., Bullock, J. M. & Oakley, S., 10 Jan 2017

Ecosystem function data from Winklebury Hill, UK, in 2013

Fry, E., Evans, A., Savage, J., Bardgett, R., Ostle, N., Pywell, R. & Bullock, J. M., 2017

Shifts in microbial communities do not explain the response of grassland ecosystem function to plant functional composition and rainfall change

Fry, E. L., Manning, P., Macdonald, C., Hasegawa, S., De Palma, A., Power, S. A. & Singh, B. K., 1 Jan 2016, In: *Soil Biology and Biochemistry*. 92, p. 199-210 12 p.

Seasonal Variation in the Capacity for Plant Trait Measures to Predict Grassland Carbon and Water Fluxes

Everwand, G., Fry, E. L., Eggers, T. & Manning, P., Sep 2014, In: *Ecosystems*. 17, 6, p. 1095-1108 14 p.

Ecosystem functions are resistant to extreme changes to rainfall regimes in a mesotrophic grassland

Fry, E. L., Manning, P. & Power, S. A., Aug 2014, In: Plant and Soil. 381, 1-2, p. 351-365 15 p.

Trait-based classification and manipulation of plant functional groups for biodiversity-ecosystem function experiments

Fry, E. L., Power, S. A. & Manning, P., Jan 2014, In: Journal of Vegetation Science. 25, 1, p. 248-261 14 p.

Plant Functional Group Composition Modifies the Effects of Precipitation Change on Grassland Ecosystem Function

Fry, E. L., Manning, P., Allen, D. G. P., Hurst, A., Everwand, G., Rimmler, M. & Power, S. A., 20 Feb 2013, In: PLoS One. 8, 2, e57027.

Qualifications

Biology, PhD, Imperial College London

1 Oct 2007 → 16 Jul 2011

Award Date: 26 Sep 2011

Forest Protection and Conservation, MSc, Imperial College London

1 Sep 2006 → 28 Sep 2007

Award Date: 28 Sep 2007

Environmental Biology, BSc, Royal Holloway University of London

28 Sep 2002 → 30 Jun 2006

Award Date: 30 Jun 2006