

CV-István Mikó

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Education

- 2001 Diploma (M.Sc. equivalent) Biology, Szeged University
- 2007 Ph.D. Environmental Sciences, Szeged University

Research

- Graduate Research Assistant, Szeged University, Szeged, HUNGARY, 2000–2001
- Parasitologist, Systematic Parasitoid Laboratory, Kőszeg, HUNGARY, 2001–2007.
- Biologist, Bólyai János Gimnázium, Szombathely, HUNGARY, 2007–2008
- Research Associate, North Carolina State University, Department of Entomology, Raleigh, NC, USA 2008–2012
- Research Associate, Pennsylvania State University, Department of Entomology, University Park, PA, USA, 2012–2018
- Collections Manager, UNH Collection of INsects and other Arthropods, University of New Hampshire, Department of Biological Sciences, Durham, NH, USA, 2018–present

Teaching*Undergraduate*

- Co-Instructor, 2000, Szeged University - Zootaxonomy
- Invited lecturer, 2003-2006, Szeged University - Parasitic wasps: Taxonomy, evolution and biological control
- Lecturer, 2016-2018, Pennsylvania State University - Introduction to Entomology (ENT 313, 2 credit)
- Lecturer, 2019-present, University of New Hampshire - Introduction to Entomology (ZOOL 555)
- Lecturer, 2019-present, University of New Hampshire - Principles of Animal Physiology (ZOOL 625,626)
- Instructor, 2019-present, University of New Hampshire - Introduction to Biology Honors Lab (BIOL 412LH)
- Lecturer, 2018–present, University of New Hampshire - “Principles of Animal Physiology” (ZOOL 625/626, 5 credit)
- Lecturer, 2020–present, University of New Hampshire - “Evolution, Biodiversity and Ecology” (BIOL 412HL 1 credit)
- Lecturer, 2022–present, University of New Hampshire - “Introduction to Entomology” (BIOL 555)

4 credit)

- Lecturer, 2024–present, University of New Hampshire - "Controversial issues in Biology" (BIOL 700 4 credit)

Graduate

- Consultant and guest lecturer, 2008-2012, North Carolina State University - Insect Biodiversity and Evolution (ENT 502)
- Instructor, 2012, North Carolina State University - Insect Morphology Seminar (Ent 601/608)
- Consultant and guest lecturer, 2012, 2013 Pennsylvania State University - Insect Biodiversity and Evolution (ENT 432)
- Co-Instructor, 2014-present Pennsylvania State University - Insect Biodiversity and Evolution (ENT 432)
- Guest Lecturer, 2015, 2016, BIOL 443 – Evo-Devo: Evolution of Developmental Mechanisms
- Lecturer, 2015–2018, Pennsylvania State University - "Know Your Insect" (ENT 597, 3 credit)
- Lecturer, 2018–present, University of New Hampshire - "Know Your Creature" (BIOL 895, 4 credit)

Peer reviewed publications

1. Talamas, E. J., & **Mikó, I.** (2024). Case 3887–Trimorus Foerster, 1856 (Insecta, Hymenoptera, Scelionidae): proposed conservation of current usage by designation of a neotype for *Gryon nanno* Walker, 1836. *The Bulletin of Zoological Nomenclature*, 81(1), 98-102.
2. Hoag, H. A., Raymond, M., Ulmer, J. M., Schwéger, S., van de Kamp, T., Hamann, E., Zuber, M., Werren, J., Gaucher, G., Hazen, M. and **Mikó, I.** (2025). The cranial gland system of *Nasonia* spp.: a link between chemical ecology, evo-devo, and descriptive taxonomy (Hymenoptera: Chalcidoidea). *Journal of Insect Science*, 25(2), 13.
3. Bennett, A.M., Buffington, M.L., Deans, A.R., Forshage, M., Melika, G., **Mikó, I.** and Smith, D.R., 2024. Checklists of the Ceraphronoidea, Cynipoidea, Evanioidea, Stephanoidea and Trigonalioidea (Hymenoptera) of Canada, Alaska and Greenland. *Journal of Hymenoptera Research*, 97, pp.1163-1220.
4. Moser, M., Salden, T., **Mikó, I.** and Krogmann, L., 2024. Synthesis of the host associations of Ceraphronoidea (Hymenoptera): a key to illuminating a dark taxon. *Insect Systematics and Diversity*, 8(6), p.6.
5. Duque, J.C.G., Balk, M., Dahdul, W., Lapp, H., **Mikó, I.**, Alhajjar, E., Wynd, B., Tarasov, S., Lawrence, C., Khakurel, B. and Porto, A., 2024. Meeting Report for the Phenoscape TraitFest 2023 with Comments on Organising Interdisciplinary Meetings. *Biodiversity Information Science and Standards*, 8, p.e115232.
6. Sasso-Porto, D., Uyeda, J., **Mikó, I.** and Tarasov, S. (2024) Ontophylo: Reconstructing the

Evolutionary Dynamics of Phenomes Using New Ontology-Informed Phylogenetic Methods.
Methods in Ecology and Evolution <https://doi.org/10.1111/2041-210X.14283>

7. Domínguez, E., van de Kamp, T., **Mikó, I.**, Cuezso, M.G. and Staniczek, A.H., 2023. The function of wing bullae in mayflies (Insecta: Ephemeroptera) reveals new insights into the early evolution of Pterygota. *BMC biology*, 21(1), p.268.
8. Guiguet A., Tooker, J.F., Deans, A.R., **Mikó, I.**, Ning, J., Schwéger, S., and Hines, H. (2023) Comparative anatomy of venom glands suggests a role of maternal secretions in gall induction by cynipid wasps (Hymenoptera: Cynipidae). *Insect Systematics and Diversity*: 7(5) 3.
9. Dal Pos, D., **Mikó, I.**, Talamas, E., Vilhelmsen, L., Sharanowski, B. (2023) A revised terminology for male genitalia in Hymenoptera (Insecta), with a special emphasis on Ichneumonoidea. *PeerJ*, 11, p.e15874.
10. Eggs, B., Fischer, S., Csader, M., **Mikó, I.**, Rack, A. and Betz, O. (2023) “Terebra Steering in Chalcidoid Wasps.” *Frontiers in Zoology* 20: 26.
11. Girón, J.C., Tarasov, S., González Montaña, L.A., Matentzoglou, N., Smith, A.D., Koch, M., Boudinot, B.E., Bouchard, P., Burks, R., Vogt, L. and Yoder, M., Osumi-Sutherland, D., Friedrich, F., Beutel, R.G. and **Mikó, I.** (2023) Formalizing Invertebrate Morphological Data: A Descriptive Model for Cuticle-Based Skeleto-Muscular Systems, an Ontology for Insect Anatomy, and their Potential Applications in Biodiversity Research and Informatics. *Systematic biology*, p.syad025.
12. Moser, M., Ulmer, J.M., van de Kamp, T., Vasilița, C., Renninger, M., **Mikó, I.** and Krogmann, L. (2023) Surprising morphological diversity in ceraphronid wasps revealed by a distinctive new species of Aphanogmus (Hymenoptera: Ceraphronoidea). *European Journal of Taxonomy*, 864, pp.146-166.
13. Blaimer, B.B., Santos, B.F., Cruaud, A., Gates, M.W., Kula, R.R., **Mikó, I.**, Rasplus, J.Y., Smith, D.R., Talamas, E.J., Brady, S.G. and Buffington, M.L. (2023) Key innovations and the diversification of Hymenoptera. *Nature Communications*, 14(1), p.1212.
14. Ulmer, J.M., **Mikó, I.**, Richter, A., Helms, A., van de Kamp, T. and Krogmann, L. (2023) ‘Social glands’ in parasitoids?—convergent evolution of metapleural glands in Hymenoptera. *Insect Systematics and Diversity*, 7(2).
15. Tarasov S, **Mikó I**, Yoder MJ (2022) ontoFAST: An R package for interactive and semi-automatic annotation of characters with biological ontologies. *Methods in Ecology and Evolution*.13(2):324-9.
16. Hines, HM, Kilpatrick SK, **Mikó I**, Snellings D, López-Urbe MM, and Tian L (2022) The diversity, evolution, and development of setal morphologies in bumble bees (Hymenoptera: Apidae: *Bombus* spp.)." *PeerJ* 10 (2022): e14555.
17. Vogt L, **Mikó I**, Bartolomaeus T. (2022) Anatomy and the type concept in biology show that ontologies must be adapted to the diagnostic needs of research. *Journal of Biomedical Semantics*. 2022 Dec;13(1):1-27.
18. Hameed, A., Ulmer, J.M., **Miko, I.**, Rosa, C. and Rajotte, E.G. (2022) Morphology of the Female

- Reproductive System of the Soybean Thrips, *Neohydatothrips variabilis* (Beach, 1896)(Thysanoptera: Thripidae). *Insects*, 13(7), p.566.
19. van de Kamp T, **Mikó I**, Staniczek AH, Eggs B, Bajerlein D, Faragó T, Hagelstein L, Hamann E, Spiecker R, Baumbach T, Janšta P. (2022) Evolution of flexible biting in hyperdiverse parasitoid wasps. *Proceedings of the Royal Society B*. 289(1967):20212086.
 20. Seltmann K, Allen J, Brown BV, Carper A, Engel MS, Franz N, Gilbert E, Grinter C, Gonzalez VH, Horsley P, Lee S, Maier C, **Mikó I**, Morris P, Oboyski P, Pierce NE, Poelen J, Scott VL, Smith M, Talamas EJ, Tsutsui ND, Tucker E (2021) Announcing Big-Bee: An initiative to promote understanding of bees through image and trait digitization. *Biodiversity Information Science and Standards*. 2021 Sep 7;5(e74037).
 21. **Mikó I**, Masner L, Ulmer JM, Raymond M, Hobbie J, Tarasov S, Margaría CB, Seltmann KC, Talamas EJ (2021) A semantically enriched taxonomic revision of *Gryonoides* Dodd, 1920 (Hymenoptera, Scelionidae), with a review of the hosts of Teleasinae. In: Lahey Z, Talamas E (Eds) *Advances in the Systematics of Platygastroidea III. Journal of Hymenoptera Research* 87: 523–573. <https://doi.org/10.3897/jhr.87.72931>
 22. **Mikó I**, Raymond M, Talamas EJ (2021) New family-level characters for Platygastroidea. In: Lahey Z, Talamas E (Eds) *Advances in the Systematics of Platygastroidea III. Journal of Hymenoptera Research* 87: 235–249. <https://doi.org/10.3897/jhr.87.72906>
 23. Wang X, Chen H, **Mikó I**, Huang Y, Zhu C (2021) Notes on the genus *Dendrocerus* Ratzeburg (Hymenoptera, Megaspilidae) from China, with description of two new species. *Journal of Hymenoptera Research* 86: 123-143. <https://doi.org/10.3897/jhr.86.72281>
 24. Ulmer JM, **Mikó I**, Deans AR, Krogmann L (2021) The Waterston's evaporatorium of Ceraphronidae (Ceraphronoidea, Hymenoptera): A morphological barcode to a cryptic taxon. *Journal of Hymenoptera Research* 85: 29–56. <https://jhr.pensoft.net/article/67165/>
 25. Yip E, **Mikó I**, Ulmer JM, Cherim NA, Townley MA, Poltak S, Helms A, De Moraes C, Mescher M, Tooker J (2021) Gigantic polyploid epidermal cells and male pheromone production in the tephritid fruit fly *Eurosta solidaginis* (Diptera: Tephritidae). *Journal of Insect Physiology*. 130. <https://doi.org/10.1016/j.jinsphys.2021.104210>
 26. Csősz S, Seifert B, **Mikó I**, Boudinot B, Borowiec M, Fisher B, Prebus M, Puniamoorthy J, Rakotonirina JC, Rasoamanana N, Schultz R, Trietsch C, Ulmer J, Elek Z (2021) Insect morphometry is reproducible under average investigation standards. *Ecology and Evolution*. 11(1), pp.547-559. <https://doi.org/10.1002/ece3.7075>
 27. Trietsch C, **Mikó I**, Ezray B and Deans AR, (2020). A taxonomic revision of Nearctic *Conostigmus* (Hymenoptera: Ceraphronoidea: Megaspilidae). *Zootaxa*, 4792(1), pp.1-155.
 28. Klopstein S, Santos BF, Shaw MR, Alvarado M, Bennett AM, Dal Pos D, Giannotta M, Florez AFH, Karlsson D, Khalaim AI, Lima AR, **Mikó I**, Sääksjärvi IE, Shimizu S, Spasojevic T, van Noort S, Vilhelmsen L, Broad GR (2019). Darwin wasps: a new name heralds renewed efforts to unravel the evolutionary history of Ichneumonidae. *Entomological Communications*, 1, pp.ec01006-ec01006. [link](#)
 29. Földvári M, **Mikó I**, Ulmer JM, dos Santos Rolo T, Csősz S, Pomiankowski A, Baumbach T, van

- de Kamp T (2019) Universal locking mechanisms in insect legs: jumping and grasping. *Insect Systematics and Diversity*. [link](#)
30. Tarasov S, **Mikó I**, Yoder MJ, Uyeda J (2019) PARAMO pipeline: reconstructing ancestral anatomies using ontologies and stochastic mapping. *Insect Systematics and Diversity*. [link](#)
 31. **Mikó I**, Rahman SR, Jones A, Townley MA, Gominho B, Paudel S, Stupski D, Hines HM and Schilder RJ (2019) From spinning silk to spreading saliva: mouthpart remodelling in *Manduca sexta* (Lepidoptera: Sphingidae). *Insect Systematics and Diversity*. [link](#)
 32. Trietsch C, **Mikó I**, and Deans AR (2019) A photographic catalog of Ceraphronoidea types at the Muséum national d'Histoire naturelle, Paris (MNHN), with comments on unpublished notes from Paul Dessart. *European Journal of Taxonomy* 502: 1–60.
 33. Rork A, **Mikó I**, and Renner T (2019) Pygidial glands of *Harpalus pensylvanicus* (Coleoptera: Carabidae) contain resilin-rich structures. *Arthropod Structure and Development*. 49: 19–25. <https://doi.org/10.1016/j.asd.2018.12.004>
 34. **Mikó I**, Rahman SR, Anzaldo SS, van de Kamp T, Parslow BA, Tatarnic NJ, Wetherington MT, Anderson J, Schilder RJ, Ulmer JM, Deans AR, and Hines H (2019). Fat in the Leg: Function of the Expanded Hind Leg in Gasteruptiid Wasps (Hymenoptera: Gasteruptiidae). *Insect Systematics and Diversity* 3(1): 1–16. <https://doi.org/10.1093/isd/ixy020>.
 35. **Mikó I**, Trietsch C, van de Kamp T, Masner L, Ulmer JM, Yoder MJ, Zuber M, Sandall EL, Baumbach T, and Deans AR (2018) Revision of *Trassedia* (Hymenoptera: Ceraphronidae), an evolutionary relict with an unusual distribution. *Insect Systematics and Diversity* 2(6): 1–29. <https://doi.org/10.1093/isd/ixy015>.
 36. **Mikó I**, van de Kamp T, Trietsch C, Ulmer JM, Zuber M, Baumbach T, and Deans AR (2018) A new megaspilid wasp from Eocene Baltic amber (Hymenoptera: Ceraphronoidea), with notes on two non-ceraphronoid families: Radiophronidae and Stigmaphronidae. *PeerJ* 6:e5174. <https://doi.org/10.7717/peerj.5174>.
 37. Koch M, Driller C, Schmidt M, Hörschemeyer T, Weiland C, **Mikó I**, Yoder M, and Hickler T (2018) Current progress in the development of taxonomic and anatomical ontologies within the scope of BIOfid. *Biodiversity Information Science and Standards* 2: e25585. <https://doi.org/10.3897/biss.2.25585>.
 38. Trietsch C, **Mikó I**, Notton D, and Deans A (2018) Unique extrication structure in a new megaspilid, *Dendrocercus scutellaris* Trietsch & Mikó (Hymenoptera: Megaspilidae). *Biodiversity Data Journal* 6: e22676. <https://doi.org/10.3897/BDJ.6.e22676>.
 39. Ulmer J, **Mikó I**, and Deans A (2018) *Ceraphron krogmanni* (Hymenoptera: Ceraphronidae), a new species from Lower Saxony with unusual male genitalia. *Biodiversity Data Journal*. 6: e2473. <https://doi.org/10.3897/BDJ.6.e24173>
 40. Pearsons K, **Mikó I**, and Tooker JF (2017) The cyanide gland of the greenhouse millipede, *Oxidus gracilis* (Polydesmida: Paradoxosomatidae). *Research Ideas and Outcomes* 3: e12249 DOI: <https://doi.org/10.3897/rio.3.e12249>
 41. Morin HD, **Mikó I**, and Gates M (2017) A new species of *Ormocerus* Walker (Hymenoptera: Pteromalidae) from North America and a range expansion for *Ormocerus latus* Walker.

- Proceedings of the Entomological Society of Washington* 119: 619–628.
<https://doi.org/10.4289/0013-8797.119.4.619>.
42. Trietsch C, **Mikó I**, Ulmer JM, and Deans AR. (2017) Translucent cuticle and setiferous patches in Megaspilidae (Hymenoptera, Ceraphronoidea). *Journal of Hymenoptera Research*. 60: 135–156. <https://doi.org/10.3897/jhr.60.13692>.
 43. Talamas E, **Mikó I**, and Johnston-Jordan D (2017) Convergence in the ovipositor system of platygastroid wasps (Hymenoptera). *Journal of Hymenoptera Research* 56: 263–276 DOI: <https://doi.org/10.3897/jhr.56.12300>.
 44. Popovici OA, Vilhelmsen L, Masner L, **Mikó I**, and Johnson NF. (2017) Maxillolabial complex in scelionids (Hymenoptera: Platygastroidea): morphology and phylogenetic implications. *Insect Systematics and Evolution*. 48: 315–439. DOI: [10.1163/1876312X-48022156](https://doi.org/10.1163/1876312X-48022156).
 45. Wirkner CS, Göpel T, Runge J, Keiler J, Klussmann-Fricke B-J, Huckstorf K, Scholz S, **Mikó I**, Yoder M, and Richter S (2017) The first organ based ontology for arthropods (Ontology of Arthropod Circulatory Systems OArCS) and a semantic model for the formalization of morphological descriptions. *Systematic Biology*. 66: 754–768. DOI: <https://doi.org/10.1093/sysbio/syw108>.
 46. **Mikó I**, Trietsch C, Sandall E, Yoder MJ, Hines H, and Deans AR (2016) Malagasy *Conostigmus* and the secret of scutes. *PeerJ* 4:e2682 DOI: <https://doi.org/10.7717/peerj.2682>.
 47. Chang-Ti Tang, **Mikó I**, Nicholls JA, Schwéger S, Yang M-M, Stone GN, Sinclair F, Bozsó M, Melika G, and Péntes Z (2016) New *Dryocosmus* Giraud species associated with *Cyclobalanopsis* and non-*Quercus* host plants from the Eastern Palaearctic (Hymenoptera, Cynipidae, Cynipini). *Journal of Hymenoptera Research*. 53: 77–162. DOI: <https://doi.org/10.3897/jhr.53.9890>.
 48. **Mikó I**, Masner L, and Deans AR (2016) *Pteroceraphron* new to the USA (Hymenoptera: Ceraphronoidea). *Biodiversity Data Journal* 4: e9261. DOI: [10.3897/BDJ.4.e9261](https://doi.org/10.3897/BDJ.4.e9261).
 49. Talamas E, **Mikó I**, and Copeland R (2016) Revision of *Dvivarnus* (Scelionidae, Teleasinae). *Journal of Hymenoptera Research* 49: 1–23. DOI: <https://doi.org/10.3897/JHR.49.7714>.
 50. Burks K, **Mikó I**, and Deans AR (2016) *Dendrocercus mexicali* (Hymenoptera, Ceraphronoidea, Megaspilidae): Novel antennal morphology, first description of female, and expansion of known range into the US. *ZooKeys* 569: 53–69. DOI: <https://doi.org/10.3897/zookeys.569.6629>.
 51. Trietsch C, Deans AR, and **Mikó I** (2015) Redescription of *Conostigmus albovarius* Dodd, 1915 (Hymenoptera, Megaspilidae), a metallic ceraphronoid, with the first description of males. *Journal of Hymenoptera Research* 46: 137–150. DOI: [10.3897/JHR.46.5534](https://doi.org/10.3897/JHR.46.5534).
 52. Csősz S, Heinze J, and **Mikó I** (2015) Taxonomic Synopsis of the Ponto-Mediterranean Ants of *Temnothorax nylanderii* Species-Group. PLoS ONE 10(11): e0140000. DOI: [10.1371/journal.pone.0140000](https://doi.org/10.1371/journal.pone.0140000).
 53. Deans AR, Lewis SE, Huala E, Anzaldo SS, Ashburner M, Balhoff JP, Blackburn DC, Blake JA, Burleigh JG, Chanet B, Cooper LD, Courtot M, Csősz S, Cui H, Dahdul W, Das S, Dececchi TA, Dettai A, Diogo R, Druzinsky RE, Dumontier M, Franz NM, Friedrich F, Gkoutos GV, Haendel M, Harmon LJ, Hayamizu TF, He Y, Hines H, Ibrahim N, Jackson LM, Jaiswal P, James-Zorn C, Köhler S, Lapp H, Lawrence CJ, Le Novère N, Lecointre G, Lundberg JG, Macklin J, Mast AR, Midford PE, **Mikó I**, Mungall CJ, Oellrich A, Osumi-Sutherland D, Parkinson H, Ramírez MJ,

- Richter S, Robinson PN, Ruttenberg A, Schulz KS, Segerdell E, Seltmann KS, Sharkey MJ, Smith AD, Smith BA, Specht CD, Squires RB, Thacker RW, Thessen A, Triana JF, Vihinen M, Vize PD, and Vogt L (2015) Finding our way through phenotypes. *PLoS Biology*.
54. Popovici OA, **Mikó I**, Seltmann KC, and Deans AR (2014) The maxillo-labial complex of *Sparasion* (Hymenoptera, Platygastroidea). *Journal of Hymenoptera Research* 37: 77–111. DOI: [10.3897/jhr.37.5206](https://doi.org/10.3897/jhr.37.5206).
 55. **Mikó I**, Copeland RS, Balhoff JP, Yoder MJ, and Deans AR (2014) Folding wings like a cockroach: a review of transverse wing folding ensign wasps (Hymenoptera: Evaniidae: *Afrevania* and *Trissevania*). *PLoS ONE* 9(5): e94056. DOI: [10.1371/journal.pone.0094056](https://doi.org/10.1371/journal.pone.0094056).
 56. **Mikó I**, Masner L, Johannes E, Yoder MJ, and Deans AR (2013) Male terminalia of Ceraphronoidea: diversity in an otherwise monotonous taxon. *Insect Systematics and Evolution* 44: 261–347. DOI: [10.1163/1876312X-04402002](https://doi.org/10.1163/1876312X-04402002).
 57. Aguiar AP, Deans AR, Engel MS, Forshage M, Huber JT, Jennings JT, Johnson NF, Lelej AS, Longino JT, Lohrmann V, **Mikó I**, Ohl M, Rasmussen C, Taeger A, and Yu DSK (2013) Order Hymenoptera. *Zootaxa* 3703: 51–62. <http://dx.doi.org/10.11646/zootaxa.3703.1.12>.
 58. Ernst A, **Mikó I**, and Deans AR (2013) Morphology and function of the ovipositor mechanism in Ceraphronoidea (Hymenoptera: Apocrita). *Journal of Hymenoptera Research* 33: 25–61. DOI: [10.3897/jhr.33.5204](https://doi.org/10.3897/jhr.33.5204).
 59. Balhoff JP, **Mikó I**, Yoder MJ, Mullins PL, and Deans AR (2013) A semantic model for species description, applied to the ensign wasps (Hymenoptera: Evaniidae) of New Caledonia. *Systematic Biology* 62: 639–659. DOI: [10.1093/sysbio/syt028](https://doi.org/10.1093/sysbio/syt028).
 60. Wharton R, Ward L, and **Mikó I** (2013) New neotropical species of Opiinae (Hymenoptera, Braconidae) reared from fruit-infesting and leaf-mining Tephritidae (Diptera) with comments on the *Diachasmimorpha mexicana* species group and the genera *Lorenzopius* and *Tubiformopius*. *Zookeys* 243: 27–82. DOI: [10.3897/zookeys.243.3990](https://doi.org/10.3897/zookeys.243.3990).
 61. Fülöp D, **Mikó I**, Seltmann K, Péntes Z, and Melika G (2013) The description of *Alloxysta chinensis*, a new Charipinae species from China (Hymenoptera, Figitidae). *Zootaxa* 3637 (3): 394–400.
 62. Bertone MA, **Mikó I**, Yoder MJ, Seltmann KC, Balhoff JP, and Deans AR (2013) Matching arthropod anatomy ontologies to the Hymenoptera Anatomy Ontology: results from a manual alignment. *Database* 2013 : bas057. DOI: [10.1093/database/bas057](https://doi.org/10.1093/database/bas057).
 63. **Mikó I**, Friedrich F, Yoder MJ, Hines HM, Deitz LL, Bertone MA, Seltmann KC, Wallace MS, and Deans AR (2012) On dorsal prothoracic appendages in treehoppers (Hemiptera: Membracidae) and the nature of morphological evidence. *PLoS ONE* 7(1): e30137. DOI: [10.1371/journal.pone.0030137](https://doi.org/10.1371/journal.pone.0030137).
 64. Deans AR, **Mikó I**, Wipfler B, and Friedrich F (2012) Evolutionary phenomics and the emerging enlightenment of arthropod systematics. *Invertebrate Systematics* 26: 323–330. DOI: [10.1071/IS12063](https://doi.org/10.1071/IS12063).
 65. Seltmann KC, Yoder MJ, **Mikó I**, Forshage M, Bertone MA, Agosti D, Austin AD, Balhoff JP, Borowiec ML, Brady SG, Broad GR, Brothers DJ, Burks RA, Buffington ML, Campbel HM, Dew KJ, Ernst AF, Fernández-Triana JL, Gates MW, Gibson GAP, Jennings JT, Johnson NF, Karlsson D, Kawada R, Krogmann L, Kula RR, Mullins PL, Ohl M, Rasmussen C, Ronquist F,

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66. **Mikó I**, Yoder MJ, and Deans AR (2011) Order Hymenoptera, family Megaspilidae. *Arthropod Fauna of the United Arab Emirates* 4: 353–374.
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 70. **Mikó I**, Masner L, and Deans AR (2010): World revision of *Xenomorus* Walker (Hymenoptera: Platygasteridae). *Zootaxa* 2708: 1–73.
 71. Csóka G, Péntes Z, Hirka A, **Mikó I**, Matošević D, and Melika G (2009) Parasitoid assemblages of two invading black locust leaf miners, *Phyllonorycter robiniella* (Clemens, 1859) and *Parectopa robiniella* (Clemens, 1859) in Hungary. *Periodicum biologorum* 111: 405–411.
 72. **Mikó I**, and Deans AR (2009) *Masner*, a new genus of Ceraphronidae (Hymenoptera, Ceraphronoidea) described using controlled vocabularies. *Zookeys* 20: 127–153. DOI: [10.3897/zookeys.20.119](https://doi.org/10.3897/zookeys.20.119).
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 74. Tavakoli M, Melika G, Sadeghi E, Péntes Zs, Assareh MA, Atkinson RJ, Bechtold M, **Mikó I**, Zargaran MR, and Aligolizade D (2008) New species of oak gallwasps from Iran (Hymenoptera: Cynipidae: Cynipini). *Zootaxa* 1699:1–64.
 75. **Mikó I**, Vilhelmsen L, Johnson NF, Masner IL, and Péntes Z (2007) Skeletomusculature of Scelionidae (Hymenoptera: Platygastroidea): head and mesosoma. *Zootaxa* 1571: 1–78.
 76. **Mikó I**, Kononova S, and Melika G (2005) Egg parasitoids of *Zabrus tenebrioides* and other carabid beetles (Coleoptera: Carabidae). In: Proceedings of the 25th Jubilee Assembly of East Palaearctic Regional Section of IOBC. Budapest, 149–156.
 77. Gallé L, Gallé R, Markó B, **Mikó I**, and Sárkány-Kiss E. (2000) Habitat correlates of ground invertebrate assemblages in a flood plain landscape complex. In: Gallé L, Körmöczy L (2000): Ecology of River valleys. DE USZ, Szeged, 31–36.

Products available for review

1. White T. and **Mikó I**. (2024) Unique cuticular morphology of a truly marine insect, *Echinophthirius horridus* von Olfers, 1816 (Phthiraptera: Echinophthiriidae). *bioRxiv*: 2024-10.

2. Trietsch C, **Mikó I** (2019) Pan traps can collect live insects for morphology, histology, and more! *Hamuli* 9(2): 11–13.
3. Paudel S, **Mikó I**, Deans A, Rajotte E, and Felton G. (2018) Lyonet's gland of the tomato fruitworm, *Helicoverpa zea* (Lepidoptera: Noctuidae) *PeerJ Preprints* 6:e26455v1 <https://doi.org/10.7287/peerj.preprints.26455v1>.
4. Rivera-Vega L, and **Mikó I** (2017) Know your insect: Malpighian tubules in *Trichoplusia ni* (Lepidoptera: Noctuidae). *Research Ideas and Outcomes* 3: e11827. DOI: <https://doi.org/10.3897/rio.3.e11827>.
5. Paudel Timilsena B, and **Mikó I** (2017) Know your insect: The structural backgrounds of regurgitation, a case study on *Manduca sexta* and *Heliothis virescens* (Lepidoptera: Sphingidae, Noctuidae). *Research Ideas and Outcomes* 3: e11997 DOI: <https://doi.org/10.3897/rio.3.e11997>.
6. **Mikó I**, and Deans AR (2015) Phenotypes in insect biodiversity research. *bioRxiv*. DOI: [10.1101/032425](https://doi.org/10.1101/032425).
7. **Mikó I**, Yoder MJ, Balhoff JP, and Deans AR (2015): Generating semantic phenotypes. *figshare*. DOI: [10.6084/m9.figshare.1314904](https://doi.org/10.6084/m9.figshare.1314904).
8. **Mikó I**, and Deans AR (2014). The second axillary in Hymenoptera. *PeerJ PrePrints* DOI: [10.7287/peerj.preprints.428v1](https://doi.org/10.7287/peerj.preprints.428v1).
9. **Mikó I**, and Deans AR (2014). The mandibular gland in *Nasonia vitripennis* (Hymenoptera: Pteromalidae). *bioRxiv* DOI: [10.1101/006569](https://doi.org/10.1101/006569).
10. **Mikó I**, and Deans AR (2013) What is fluorescing? *Hamuli* 4(2): 19–22

Grants

- \$105,383—"Advancing Blueberry Plant Protection: Creating Identification and Monitoring Tools for Parasitoids of Blueberry Gall Midge" USDA - PI - 2023
- \$105,513—"Advancing Blueberry Plant Protection: Creating Identification and Monitoring Tools for Parasitoids of Blueberry Gall Midge" USDA - PI - 2022
- \$117,425—"Collaborative Research: Digitization TCN: Extending Anthophila research through image and trait" NSF - PI - 2021-2024
- \$157,277—"Digitization PEN: Integration of data from the UNH Insect Collection with LepNet." NSF - PI - 2020 – 2024
- \$109,011—"Collaborative Research: Digitization TCN: Digitizing Collections to Trace Parasite-Host Associations and Predict the Spread of Vector- Borne Disease" NSF - PI - 2019 - 2023
- \$402,489 — "CSBR: Natural History: Critical infrastructure and digitization upgrades for the Frost Entomological Museum (PSUC) at Penn State" co-PI - 2014
- \$700,000 — "Revising Ceraphronoidea (Hymenoptera), a possible link between sawflies and apocritan wasps" co-PI - 2013-2018
- \$192,790 — "Collaborative Research: ABI Innovation: Rapid prototyping of semantic enhancements to biodiversity informatics platforms" co-PI - 2013-2016
- \$20,000 — "Encyclopedia of Life Biosynthesis Meeting. Integrating ontologies with biodiversity research: an example from Hymenoptera and the EOL" - 2010

Curation experience outside of my institutions (excluding loans)

- Swedish Museum of Natural History, Stockholm (Sweden) – curated Platygastroidea (July 2003), curated the type collection of Ceraphronoidea (July 2017)
- The Natural History Museum, London, U.K. – curated Platygastroidea: Teleasinae (October 2003)
- Naturhistorisches Museum Wien, Austria – curated Platygastroidea: Teleasinae (August 2004)
- Schmalhausen Institute of Zoology, Kiev, Ukraine – curated Platygastroidea (2003, 2004)
- South African National Collection of Insects and Plant Protection Research Institute, Pretoria, Republic of South Africa – curated Platygastroidea: Teleasinae (December 2003, January 2006)
- Hungarian Natural History Museum, Budapest, Hungary – curated Proctotrupeoidea s.l. (2001-2008), curated type specimens of Ceraphronoidea (July 2017)
- Museum of Natural Sciences (Brussels) – curated Ceraphronoidea collection (July 2017)
- National Museum of Natural History, Smithsonian Institution, Washington, DC – curated Ceraphronoidea (June 2011)
- Staatliches Museum für Naturkunde Stuttgart – curated Ceraphronoidea, Platygastroidea (July 2014, July 2017)
- Canadian National Insect Collection, Ottawa, ON – curated Platygastroidea: Teleasinae, Ceraphronoidea (2004, 2008, 2010–2012, 2014, 2016, 2017–2020, 2022, 2013)

Presentations

1. Morphology of male genitalia and "pleuroscopy" in *Trimorus* species-group characterization (Hymenoptera: Scelionidae: Teleasinae). I Mikó. Egg parasitoids for biocontrol of insects pests. 6th International Symposium, September, 2002
2. Correlation between the musculature and external structures in Teleasinae (Hymenoptera: Platygastroidea: Scelionidae), with reappraisal of morphological terms. I Mikó and L Masner. 6th International Conference of Hymenopterists, January, 2006
3. World revision of the *Xenomorus* genus (Hymenoptera: Scelionidae: Teleasinae). L Masner and I Mikó. 6th International Conference of Hymenopterists, January, 2006
4. *Teleas lamellatus* Szabó, 1956 (Hymenoptera: Scelionidae: Teleasinae) - egg parasitoid of *Zabrus tenebrioides* Goeze, with the description of preimaginal stages. I Mikó, SV Kononova and G Melika. 6th International Conference of Hymenopterists, January, 2006
5. Role of parasitoids in animal invasion: *Phyllonorycter robiniella* and *Parectopa robiniella* in Europe and their parasitoids. G Melika, Zs Penzes, I Mikó, G Csóka, A Hirka, M Bechtold and Z Ács. 6th International Congress of Hymenopterists, January, 2006.
6. Population dynamics of *Plutella xylostella* and its parasitoids in South Africa and Hungary. G Melika, R Kfir, I Mikó, M Bechtold & Z Ács. 6th International Congress of Hymenopterists, January, 2006.
7. Genetic variability of a cynipid inquiline wasp *Synergus umbraculus* (Hymenoptera: Cynipidae). Z Péntes, G Melika, P Bihari, K Szabó, Z Ács, J Pujade-Villar, GN Stone, I Mikó & K Somogyi. 6th International Congress of Hymenopterists, January, 2006
8. The role of taxonomy in biological control: the necessity of a parasitoid identification network

- within EPS IOBC, G Melika & I Mikó. EPS IOBC annual meeting, Poznan, Poland, May, 2006
9. Getting started with the Hymenoptera Anatomy Ontology. Seltmann K, Yoder MJ, Deans AR, Mikó I, Bertone MA European Biodiversity Informatics Workshop, September, 2009.
 10. Extraction and reflection: early evolution of the Hymenoptera Anatomy Ontology. KC Seltmann, MJ Yoder, I Mikó and AR Deans. Entomological Society of America annual meeting, December 15, 2009.
 11. Naked sclerites in Plato's cave: functional morphology in Hymenoptera research. I Mikó and AR Deans. Entomological Society of America annual meeting, December 15, 2009.
 12. Aligning insect anatomy ontologies: identifying congruences between Hymenoptera and Diptera. Bertone MA, I Mikó, MJ Yoder, KC Seltmann, A Ernst, ES Macleod and AR Deans. International Congress of Hymenopterists, Kőszeg, Hungary, June 20-26, 2010.
 13. Building the Hymenoptera Anatomy Ontology through iterative term extraction. Seltmann KC, MA Bertone, MJ Yoder, I Mikó, ES Macleod, A Ernst and AR Deans. International Congress of Hymenopterists, Kőszeg, Hungary, June 20-26, 2010.
 14. Four years later: the Hymenoptera Anatomy Ontology, an overview and call for participation. Yoder MJ, I Mikó, KC Seltmann, MA Bertone and AR Deans. International Congress of Hymenopterists, Kőszeg, Hungary, June 20-26, 2010.
 15. Molecular and Morphological Revision of *Evania* (Hymenoptera: Evaniidae) of Costa Rica. Mullins PL, BJ Sharanowski, I Mikó and AR Deans. International Congress of Hymenopterists, Kőszeg, Hungary, June 20-26, 2010.
 16. Revision of the subfamily Megaspilinae (Hymenoptera: Megaspilidae). A Ernst, I Mikó, BJ Sharanowski and AR Deans. International Congress of Hymenopterists, Kőszeg, Hungary, June 20-26, 2010.
 17. Male genitalia and the phylogeny of Ceraphronoidea (Hymenoptera: Apocrita), I Mikó, MJ Yoder and AR Deans. Entomological Society of America annual meeting, December, 2010.
 18. Interfaces to the Hymenoptera Anatomy Ontology. MJ Yoder, MA Bertone, KC Seltmann, I Mikó and AR Deans. Entomological Society of America annual meeting, December, 2010.
 19. Anatomy ontologies for Hymenoptera and other arthropods: status, development and alignment. MA Bertone, MJ Yoder, KC Seltmann, I Mikó and AR Deans. Entomological Society of America annual meeting, December, 2010.
 20. The Hymenoptera Anatomy Ontology project: revelations and future directions. AR Deans, MJ Yoder, I Mikó, KC Seltmann and MA Bertone. Entomological Society of America annual meeting, December, 2010.
 21. Illuminating the Hymenoptera lexicon. KC Seltmann, I Mikó, MJ Yoder, MA Bertone and AR Deans. The Swedish Malaise Trap Project's 3rd Hymenoptera Workshop, May 2011.
 22. Practical morphology - studying muscles the easy way. I Mikó, KC Seltmann, MJ Yoder, MA Bertone and AR Deans. The Swedish Malaise Trap Project's 3rd Hymenoptera Workshop, May 2011.
 23. Divorcing theory and datum: objectification of morphological data using anatomy ontologies. I Mikó, KC Seltmann, MA Bertone, MJ Yoder and AR Deans. 2nd International Conference of Invertebrate Morphology, Harvard University, Cambridge, MA. June 2011.
 24. Multi-species anatomy ontology development requires a pluralist approach to label-class

- mapping. I Mikó, MJ Yoder, MA Bertone, KC Seltmann and AR Deans. International Conference on Biomedical Ontology, University at Buffalo, NY. July 26-30, 2011.
25. The final frontier of taxonomic standards - descriptive content. MJ Yoder, JP Balhoff, I Mikó, KC Seltmann and AR Deans. Biodiversity Information Standards (TDWG) annual meeting, New Orleans, LA, October 2011.
 26. Changing the way we describe biodiversity. AR Deans, KC Seltmann, MA Bertone, I Mikó, JP Balhoff and MJ Yoder. Entomological Society of America, Reno, November 2011.
 27. New tools for deploying the Hymenoptera Anatomy Ontology. AR Deans, KC Seltmann, MA Bertone, MJ Yoder and I. Mikó. International Society of Hymenopterists symposium, Entomological Society of America, Reno, November 2011.
 28. Changing the way we describe biodiversity. AR Deans, MJ Yoder, JP Balhoff, I Mikó, KC Seltmann and MA Bertone. XXIV International Congress of Entomology. August 2012.
 29. A semantic model for morphological description. I Mikó, MJ Yoder, JP Balhoff and AR Deans. XXXII Meeting of the Willi Hennig Society. August 2013.
 30. A semantic model for morphological description. I Mikó, MJ Yoder, JP Balhoff and AR Deans. 6th Dresden Meeting of Insect phylogeny. September 2013.
 31. Revision of Nearctic *Dendrocerus* Ratzeburg (Hymenoptera: Ceraphronoidea). Entomological Society of America, Austin, November 2013.
 32. Taming Malagasy Ceraphronidae: an essay on high resolution wet sample imaging. I Mikó, AR Deans. Entomological Society of America, Portland, November 2014.
 33. Know your insects! New approaches to teaching insect morphology and systematics. Deans AR and Mikó I. Entomological Society of America, Minneapolis, MN, November 2015.
<http://bit.ly/Deans2015ESA>
 34. Insect integument: The link between insect taxonomy and evolutionary developmental biology. Mikó I, Hines HM, Deans AR. Entomological Society of America, Minneapolis, MN, November 2015.
 35. The magnificent Megaspilidae: *Conostigmus* spp. (Hymenoptera: Megaspilidae) of the Nearctic. Trietsch C, Mikó I, Deans AR. International Congress of Entomology, Orlando, FL, September 2016.
 36. Hymenoptera, taxonomy, and the integument. Mikó I, Deans AR, Hines HM. International Congress of Entomology, Orlando, FL, September 2016.
<https://dx.doi.org/10.6084/m9.figshare.3972063.v1>
 37. Querying semantic phenotypes with transcribed specimen data. Yoder MJ, Mikó I, Deans AR, Balhoff J, Tarasov S. Entomological Society of America, Denver, CO, November 2017.
 38. Aphanogmus male genitalia and confocal laser scanning microscopy. Mikó I, Ulmer J, Sakamoto J, Deans AR. Entomological Society of America, Denver, CO, November 2017.
 39. Impact of soybean vein necrosis virus on life table of its vector sp. Neohydatothrips variabilis (Beach). Hameed A, Mikó I, Rosa C, Rajotte E. Entomological Society of America, Denver, CO, November 2017.
 40. Mysteries of Megaspilidae: *Conostigmus* spp. (Hymenoptera: Megaspilidae) of the Nearctic. Trietsch C, Mikó I, Deans AR. Entomological Society of America, Denver, CO, November 2017.
 41. Understanding how plant niche preference is related to morphology, mechanics of motorization,

musculature of external genitalia, and egg laying behavior in female *Neohydatothrips variabilis* in soybean leaves. Asifa Hameed (akh5405@psu.edu), Edwin Rajotte, Cristina Rosa and István Mikó, Entomological Society of America, Vancouver, BC, Canada, November 2018.

42. “Phylogenetic implications of the metasoma in Platygastroidea” Raymond, M., Talamas, E. and Mikó, I. Annual Meeting of the Entomological Society of America 2024, Phoenix, AZ.
43. “3D reconstruction of the hissing organ of *Grompadorhina portentosa* (Blattodea: Blaberidae)” Jupin, S., Townley, M., Mikó, I. Annual Meeting of the Entomological Society of America 2024, Phoenix, AZ.
44. “Why exodont? Head morphology of hymenopterans with outward facing mandibles (Hymenoptera: Mymarommatidae, Vanhorniidae, Ichneumonidae, Braconidae)” Hoag, A., Raymond, M., Townley, M., and Mikó, I. Annual Meeting of the Entomological Society of America 2024, Phoenix, AZ.
45. “Investigating one dark taxon, Platygastriidae (Hymenoptera: Platygastroidea) for biocontrol of another: The blueberry gall midge complex (Diptera: Cecidomyiidae)” Raymond, M., Talamas, E., Bellemore, M., and Mikó, I. Annual Meeting of the Entomological Society of America 2024, Phoenix, AZ.
46. “Big Bee at the University of New Hampshire” Mikó, I., Hoag, A., Raymond, M., DiNardo, C., Mphatso, L. Annual Meeting of the Entomological Society of America 2024, Phoenix, AZ.
47. “Aphanogmus of South Jeju Island (Hymenoptera: Ceraphronoidea)” Bastille, O., Raymond, M., and Mikó, I. Annual Meeting of the Entomological Society of America 2024, Phoenix, AZ.
48. “The Lepidoptera collection of the University of New Hampshire” White, T., Raymond, M., Mikó, I., Mehalek, C., Gaucher, G., Bastille, O., Zaslow, S., Martell, C. Annual Meeting of the Entomological Society of America 2024, Phoenix, AZ.

Synergistic Activities

- Member, Organizing Committee, 7th International Congress of Hymenopterists (June 2010).
- Member, Organizing Committee, Encyclopedia of Life Biosynthesis Meeting. Integrating ontologies with biodiversity research: an example from Hymenoptera and the EOL (October 2010).
- Co-organizer “Illuminating the phenome: the future of morphology in entomology” symposium, Entomological Society of America annual meeting, November 2011.
- Co-organizer “Out of the Field and Into the Lab: The State of the Art in Sorting Biodiversity Samples and Processing to Publication” symposium, Entomological Society of America annual meeting, November 2014.
- Co-Editor of “Special Collection: Current techniques in Morphology”. *Insect Systematics and Diversity* (2019).
- Editor for Hymenoptera: Ceraphronoidea, Diaprioidea, Platygastroidea and Proctotrupoidea in *Zootaxa* (2011–2024).
- Lead curator of the Hymenoptera Anatomy Ontology. During the editorship I have edited the HAO listserve and have been involved in the incorporation of HAO concepts in 20+ research papers. (2009–present)
- Subject editor, *Insect Systematics and Diversity* (2016–present)



- Editorial board member, *Insect Systematics and Diversity* (2019-2024)
- Assistant editor, *Hamuli* (Newsletter of the International Society of Hymenopterists) (2013–2018)
- Reviewer of *Zookeys*, *Journal of Hymenoptera Research*, *Journal of Natural History*, *Zootaxa*, *Biological Journal of the Linnean Society*, *Acta Paleontologica Polonica*, *Biodiversity Data Journal*, *Systematic Entomology*, *Acta Zoologica Hungaricae*, *Paleontological contributions*, *PLoS ONE*, *Systematic Entomology*, *Tropical Entomology*, *Microscopy and Microanalysis*, *Biology Letters*, *Zoomorphology*, *Journal of Morphology*, *European Journal of Taxonomy*, *Myrmecological News*, *Insectes Sociaux*, *Cladistics*, *Royal Society Open Science*

Memberships

- Entomological Society of America
- International Society of Hymenopterists
- Sigma Xi, The Scientific Research Society

Language Skills

- Hungarian - native
- English - fluent