

Employment

Senior Knowledge Scientist

Content and Product Innovation

Elsevier Research Groups

Sep 21 2021 → present

About me

My background is in Biomedicine and Medical Informatics. My interests lie in biomedical knowledge graphs and ontologies. My PhD focussed on knowledge discovery from biomedical knowledge graphs, with an emphasis on leveraging predicate information from protein knowledge graphs.

2019 Elsevier, Life Science/Data Science

2015 Erasmus University Medical Center, Medical Informatics

2014 Free University Amsterdam, Knowledge Representation & Reasoning

Research outputs

Identifying genes targeted by disease-associated non-coding SNPs with a protein knowledge graph

Vlietstra, W. J., Vos, R., van Mulligen, E. M., Jenster, G. W. & Kors, J. A., Jul 13 2022, In: PLoS ONE. 17, 7, p. e0271395

Identifying disease trajectories with predicate information from a knowledge graph

Vlietstra, W. J., Vos, R., Van Den Akker, M., Van Mulligen, E. M. & Kors, J. A., Aug 20 2020, In: Journal of Biomedical Semantics. 11, 1, 9.

Predicting the development of anti-drug antibodies against recombinant alpha-galactosidase a in male patients with classical fabry disease

van der Veen, S. J., Vlietstra, W. J., van Dussen, L., van Kuilenburg, A. B. P., Dijkgraaf, M. G. W., Lenders, M., Brand, E., Wanner, C., Hughes, D., Elliott, P. M., Hollak, C. E. M. & Langeveld, M., Aug 2 2020, In: International Journal of Molecular Sciences. 21, 16, p. 1-14 14 p., 5784.

Drug prioritization using the semantic properties of a knowledge graph

Malas, T. B., Vlietstra, W. J., Kudrin, R., Starikov, S., Charrou, M., Roos, M., Peters, D. J. M., Kors, J. A., Vos, R., 't Hoen, P. A. C., van Mulligen, E. M. & Hettne, K. M., Dec 1 2019, In: Scientific Reports. 9, 1, 6281.

Using predicate information from a knowledge graph to identify disease trajectories

Vlietstra, W. J., Vos, R., van Mulligen, E. M. & Kors, J. A., 2019, In: CEUR Workshop Proceedings. 2350

Using predicate and provenance information from a knowledge graph for drug efficacy screening

Vlietstra, W. J., Vos, R., Sijbers, A. M., van Mulligen, E. M. & Kors, J. A., Sep 6 2018, In: Journal of Biomedical Semantics. 9, 1, 23.

Automated extraction of potential migraine biomarkers using a semantic graph

Vlietstra, W. J., Zielman, R., van Dongen, R. M., Schultes, E. A., Wiesman, F., Vos, R., van Mulligen, E. M. & Kors, J. A., Jul 2017, In: Journal of Biomedical Informatics. 71, p. 178-189 12 p.

Discovering information from an integrated graph database

Van Mulligen, E. M., Vlietstra, W. J., Vos, R. & Kors, J. A., 2016, In: CEUR Workshop Proceedings. 1795

Candidate prioritization for low-abundant differentially expressed proteins in 2D-DIGE datasets

Nandal, U. K., Vlietstra, W. J., Byrman, C., Jeeninga, R. E., Ringrose, J. H., van Kampen, A. H. C., Speijer, D. & Moerland, P. D., Jan 28 2015, In: BMC Bioinformatics. 16, 1, 25.

Dengue in travellers: Applicability of the 1975-1997 and the 2009 WHO classification system of dengue fever

Wieten, R. W., Vlietstra, W., Goorhuis, A., van Vugt, M., Hodiament, C. J., Leenstra, T., de Vries, P. J., Janssen, S., van Thiel, P. P., Stijnis, K. & Grobusch, M. P., Aug 2012, In: Tropical Medicine and International Health. 17, 8, p. 1023-1030 8 p.

Proteomic analysis of HIV-T cell interaction: An update

Kramer, G., Moerland, P. D., Jeeninga, R. E., Vlietstra, W. J., Ringrose, J. H., Byrman, C., Berkhout, B. & Speijer, D., 2012, In: Frontiers in Microbiology. 3, JUL