Co-author's agreement

Hereby I, Péter Boldog, the undersigned co-author of the article cited below, declare that I have never used nor will use the results therein to obtain an academic degree.

> Zsolt Vizi, Evans Kiptoo Korir, Norbert Bogya, Csaba Rosztóczy, Géza Makay, and Péter Boldog. Age group sensitivity analysis of epidemic models: Investigating the impact of contact matrix structure. arXiv:2502.19206

I declare that the contribution of the candidate, Evans Kiptoo Korir, to the results described in the above-cited article was significant, approximately 35%.

Wigner Research Centre for Physics, Budapest, Hungary, July 2, 2025

Dr. Péter Boldog
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Co-author's agreement

Hereby I, Géza Makay, the undersigned co-author of the article cited below, declare that I have never used nor will use the results therein to obtain an academic degree.

> Zsolt Vizi, Evans Kiptoo Korir, Norbert Bogya, Csaba Rosztóczy, Géza Makay, and Péter Boldog. Age group sensitivity analysis of epidemic models: Investigating the impact of contact matrix structure. arXiv:2502.19206

I declare that the contribution of the candidate, Evans Kiptoo Korir, to the results described in the above-cited article was significant, approximately 35%.

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Co-author's agreement

Hereby I, Csaba Rosztóczy, the undersigned co-author of the article cited below, declare that I have never used nor will use the results therein to obtain an academic degree.

> Zsolt Vizi, Evans Kiptoo Korir, Norbert Bogya, Csaba Rosztóczy, Géza Makay, and Péter Boldog. Age group sensitivity analysis of epidemic models: Investigating the impact of contact matrix structure. arXiv:2502.19206

I declare that the contribution of the candidate, Evans Kiptoo Korir, to the results described in the above-cited article was significant, approximately 35%.

Bolyai Institute, University of Szeged, July 2, 2025

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Co-author's agreement

Hereby I, Norbert Bogya, the undersigned co-author of the article cited below, declare that I have never used nor will use the results therein to obtain an academic degree.

> Zsolt Vizi, Evans Kiptoo Korir, Norbert Bogya, Csaba Rosztóczy, Géza Makay, and Péter Boldog. Age group sensitivity analysis of epidemic models: Investigating the impact of contact matrix structure. arXiv:2502.19206

I declare that the contribution of the candidate, Evans Kiptoo Korir, to the results described in the above-cited article was significant, approximately 35%.

Bolyai Institute, University of Szeged, July 2, 2025

Norbert Bogya

Norbert Bogya
Research assistant fellow
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Co-author's agreement

Hereby I, Zsolt Vizi, the undersigned co-author of the article cited below, declare that I have never used nor will use the results therein to obtain an academic degree.

Zsolt Vizi, Evans Kiptoo Korir, Norbert Bogya, Csaba Rosztóczy, Géza Makay, and Péter Boldog. Age group sensitivity analysis of epidemic models: Investigating the impact of contact matrix structure. arXiv:2502.19206

I declare that the contribution of the candidate, Evans Kiptoo Korir, to the results described in the above-cited article was significant, approximately 35%.

Evans Kiptoo and Zsolt Vizi. Clusters of African countries based on the social contacts and associated socioeconomic indicators relevant to the spread of the epidemic. *Journal of Mathematics in Industry 14.1, 2024.*

I declare that the contribution of the candidate, Evans Kiptoo Korir, to the results described in the above-cited article was significant, approximately 80%.

Evans Kiptoo Korir and Zsolt Vizi. Clustering of countries based on the associated social contact patterns in epidemiological modelling. In *International Symposium on Mathematical and Computational Biology, pages 253–271. Springer, 2022.*

I declare that the contribution of the candidate, Evans Kiptoo Korir, to the results described in the above-cited article was significant, approximately 40%.

Evans Kiptoo Korir and Zsolt Vizi. Eigenvector-based sensitivity analysis of contact patterns in epidemic modeling. *arXiv e-prints, pages arXiv–2502, 2025* .

I declare that the contribution of the candidate, Evans Kiptoo Korir, to the results described in the above-cited article was significant, approximately 50%.

Bolyai Institute, University of Szeged, Hungary, July 2, 2025

Dr. Zsolt Vizi

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