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Section of Epidemiology  
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## Short presentation

I dedicate my work to developing novel frameworks and methods for addressing *human health complexity*, which I approach from a *polymathic perspective*. My work includes epidemiological/statistical methodological research with medical and public health applications; course leadership, teaching and supervision in public health and medicine programs; science democratization activities with societal engagement.

## Education

In pause	Doctor of Education (Ed.D) – University College London, UK
2016	Doctor of Philosophy (Ph.D.) in Biostatistics – University of Montpellier, France
2014	Doctor of Pharmacy (Pharm.D.) – University of Montpellier, France
2013	Master of Sciences (M.Sc.) in Epidemiology – University of Montpellier, France
Since birth	Student of Life - The Universe

## Academic appointments

2019 - present	Tenure-track assistant professor of Epidemiology – Department of Public Health, University of Copenhagen, Denmark
2020 - 2022	Guest assistant professor - Department of Epidemiology, Julius Centre for Health Sciences and Primary Care, University Medical Centre, University of Utrecht, The Netherlands
2018 - 2019	Guest lecturer – Nuffield Department of Medicine, University of Oxford, UK
2017	Postdoctoral visiting researcher – Department of Epidemiology, Julius Centre for Health Sciences and Primary Care, University Medical Centre, University of Utrecht, The Netherlands
2017	Postdoctoral visiting researcher – Centre for Statistics in Medicine, University of Oxford, UK
2016 - 2018	Lecturer & hospital pharmacist, mixed part-time – Department of Biostatistics, Faculty of Pharmacy, University of Montpellier & Department of Pharmacy, Nîmes University Hospital Centre, France.
2014 - 2015	Doctoral visiting researcher – Perioperative Research Unit, Population Health Research Institute, McMaster University, Canada
2011 - 2016	Pharmacist resident – Montpellier & Nîmes University Hospital Centres, France

## Professional memberships

Since 2018	International Biometrics Society
Since 2016	French National Order of Pharmacists
Since 2015	International Society for Clinical Biostatistics

## Primary fields of research

My research focuses on bridging separate worlds of knowledge to contribute to public health. Identifying myself as a generalist rather than a specialist, I adopt a polymathic perspective to address human health complexity. I favor diversification of skills and transdisciplinarity over specialization. My experiences and interests cover: causal inference methodology (matching and weighting methods, propensity score techniques and prognostic analogues, instrumental variables, g-methods, targeted-maximum-likelihood-estimation methods); prediction modelling methodology for clinical decision making using traditional regression models or AI machine learning; various other statistical topics (e.g. missing data, synthetic data, Monte Carlo simulation); data visualization, sonification and sensification; aesthetics of knowledge; scientific communication and democratization via culture and the arts; exhibition curation; community building.

My research is applied to diverse health issues – from COVID-19 response to cardiometabolic disease, critical care and perioperative medicine, occupational health, parent-child health, childhood adversities, old age medicine, drug prescription and polypharmacy, precision and personalized medicine. I have experience in working with different types of data, from large nationwide register-based observational data to international, multi-centre randomised controlled trials.

In short, my work spans over a large spectrum of methods and applications addressing human health and its complexity – which I tackle using a transdisciplinary approach, from statistics to arts.

## Selected publications (5)

T.L. Nguyen, M. Kamper-Jørgensen. The sound of waves: tracking the pandemic (2023). *The Lancet Infectious Diseases*: 23, 1: 43; doi: 10.1016/S1473-3099(22)00791-5.

L.K. Elsenburg, A. Rieckmann, T.L. Nguyen, J. Bengtsson, A.M. Nybo Andersen, D. Taylor-Robinson, T. Lange, N.H. Rod. Mediation of the parental education gradient in early adult mortality by childhood adversity: a population-based cohort study of more than 1 million children (2022). *The Lancet Public Health*: 7, 2, p. e146-e155; doi: 10.1016/S2468-2667(21)00275-9.

V.M.T. de Jong, R.Z. Rousset, ..., T.L. Nguyen, ..., K.G.M. Moons, T.P.A. Debray. Clinical prediction models for mortality in COVID-19 patients: a living external validation and individual participant data meta-analysis (2022). *BMJ*: 378, 11 p., e069881; doi: 10.1136/bmj-2021-069881.

T.L. Nguyen, G.S. Collins, F. Pellegrini, K.G.M. Moons, T.P.A. Debray. On the aggregation of published prognostic scores for causal inference in observational studies (2020). *Statistics in Medicine*: 10: 1440-1457; doi: 10.1002/sim.8489.

T.L. Nguyen, T.P.A. Debray. The use of prognostic scores for causal inference with general treatment regimes (2019). *Statistics in Medicine*: 38(11): 2013-2029; doi: 10.1002/sim.8084.

## Reviewer for academic journals

Biostatistics; Biostatistics & Epidemiology; BMC Health Services Research; BMC Medical Research Methodology; BMJ Open; Diagnostic and Prognostic Research; European Heart Journal; Intensive Care Medicine; Journal of Clinical Epidemiology; NPJ Microgravity; PLOS One; QJM: An International Journal of Medicine; Scandinavian Journal of Public Health; Statistics in Medicine; Statistical Methods in Medical Research.

## Fields of interest

As an extension of my academic work, I have created a novel platform for sharing societal reflections in the popular neighbourhood of Nørrebro, Copenhagen, Denmark: a hybrid pop-up named *nđ · bro*, which carries the idea of blooming and growing (*nđ* in Vietnamese) and of bridging and connecting (*bro* in Danish). During two seasons (Jul 2022 and Jan/Feb 2023), I ran this pop-up and used a diversity of aesthetics to connect people around societal reflections in curated spaces including: art exhibitions with works of local artists; workshops/debates led by researchers of the University of Copenhagen; community dinners and other social events. The core idea of this 'bottom-up' initiative is to break down barriers between creative disciplines and practices, to integrate societal reflections into culture and facilitate knowledge-sharing within the local community. This project is highly transdisciplinary and has so far involved a diversity of actors/participants: academics, architects, artists, chefs, designers, researchers, students, tourists, volunteers, random visitors, and others. More information on Instagram: @no.hoi.bro

## Teaching

I am involved in different courses at the University of Copenhagen:

- "Prognostic Research in Precision Public Health", PhD course (course leader)
- "Playfulness and Connection in Teaching", PhD course (course leader)
- "Conducting and Reporting a Propensity Score Analysis", PhD course (course leader)
- "Precision Medicine in Public Health", MSc in Public Health (course co-leader)
- "Statistics, Epidemiology and Social Medicine", medical studies (course co-leader)
- "Epidemiological Methods in Medical Research", PhD course (teacher)
- "Causal Inference, part II", PhD course (teacher)
- "Epidemiology", MSc in Public Health (teacher)

My international teaching experiences include:

- 2018-2019: Guest lecturer, "Introduction to Causal Inference", MSc in International Health and Tropical Medicine, University of Oxford, UK
- 2017-2018: "Prognosis and prediction models", MSc in Biostatistics and Epidemiology, University of Montpellier, France

## Miscellaneous skills

Languages            English: business fluent; French: mother tongue; Vietnamese: mother tongue; Danish: in progress; Spanish: beginner; German: beginner.

Art practice        Cyanography; digital art; ink and pencil drawing; oil pastel painting; woodworking.

## List of publications

**Associations between psychosocial work environment factors and first-time and recurrent treatment for depression: a prospective cohort study of 24,226 employees**

Mathisen, J., Nguyen, Tri-Long, Madsen, I. E. H., Xu, T., Jensen, J. H., Sørensen, J. K., Rugulies, Reiner Ernst & Rod, Naja Hulvej, 2024, In: *Epidemiology and Psychiatric Sciences*. 33, 10 p., e13.

**Confounder Adjustment Using the Disease Risk Score: A Proposal for Weighting Methods**

Nguyen, Tri-Long, Debray, T. P. A., Youn, B., Simoneau, G. & Collins, G. S., 2024, In: *American Journal of Epidemiology*. 193, 2, p. 377–388 12 p.

**Intergenerational transmission of tobacco smoking: The role of the child's behavioral difficulties. Data from the Danish National Birth cohort (DNBC)**

Fekom, M., Nguyen, Tri-Long, Lepeule, J., Nakamura, A., Keyes, K., Martins, S., Strandberg-Larsen, Katrine & Melchior, M., 2024, In: *Drug and Alcohol Dependence*. 255, 8 p., 111056.

**Opportunities for public health engagement with citizens in neighbourhood art spaces: the modern agora**

Nguyen, Tri-Long, Clotworthy, Amy, de Montgomery, Christopher Jamil, Kreshpaj, Bertina, Matilla-Santander, N. & Nielsen, Jannie, 2024, (Accepted/In press) In: *Journal of Communication in Healthcare*.

**Use of systemic and biological therapy in patients with moderate-to-severe psoriasis**

Liljendahl, M. S., Loft, N., Nguyen, Tri-Long, Skov, Lone & Egeberg, Alexander, 2024, In: *Clinical and Experimental Dermatology*. 49, 1, p. 35–41 7 p.

**Sundhedsforskere: Et robust sundheds- og ældreområde kræver robuste fællesskaber**

Clotworthy, Amy & Nguyen, Tri-Long, 28 Sep 2023, In: *Kommunal Sundhed*.

**Assessing racial bias in type 2 diabetes risk prediction algorithms**

Cronjé, Héléne Toinét, Katsiferis, Alexandros, Elsenburg, Leonie K., Andersen, Thea Otte, Rod, Naja Hulvej, Nguyen, Tri-Long & V Varga, Tibor, 17 May 2023, In: *PLOS Global Public Health*. 3, 5, 15 p., e0001556.

**Development and internal validation of a diagnostic prediction model for psoriasis severity**

Liljendahl, M. S., Loft, N., Egeberg, Alexander, Skov, Lone & Nguyen, Tri-Long, 2023, In: *Diagnostic and Prognostic Research*. 7, 1, 7 p., 2.

**Out-of-home care placement and mortality rate in early adulthood: identifying vulnerable subgroups in a nationwide cohort study**

Sørensen, T. T., Rod, Naja Hulvej, Nguyen, Tri-Long & Bengtsson, J., 2023, In: *European Journal of Epidemiology*. 38, p. 189–197 9 p.

**Propensity-based standardization to enhance the validation and interpretation of prediction model discrimination for a target population**

Jong, V. M. T. D., Hoogland, J., Moons, K. G. M., Riley, R. D., Nguyen, Tri-Long & Debray, T. P. A., 2023, In: *Statistics in Medicine*. 42, 19, p. 1049–1059 21 p.

**Saving time and money in biomedical publishing - the case for free-format submissions with minimal requirements**

Clotworthy, Amy, Davies, Megan, Cadman, Tim, Bengtsson, J., Andersen, Thea Otte, Kadawathagedara, M., Vinther, Johan Lerbech, Nguyen, Tri-Long & V Varga, Tibor, 2023, In: *BMC Medicine*. 21, 1, 10 p., 172.

**The potential benefit of statin prescription based on prediction of treatment responsiveness in older individuals: An application to the PROSPER randomised controlled trial**

Nguyen, Tri-Long, Trompet, S., Brodersen, John Brandt, Hoogland, J., Debray, T. P. A., Sattar, N., Jukema, J. W. & Westendorp, R. G. J., 2023, (E-pub ahead of print) In: *European Journal of Preventive Cardiology*. 9 p.

**Chronic disorders, work-unit leadership quality and long-term sickness absence among 33 025 public hospital employees**

Mehta, A. J., Mathisen, J., Nguyen, Tri-Long, Rugulies, Reiner Ernst & Rod, Naja Hulvej, 2022, In: *Scandinavian journal of work, environment & health*. 48, 7, p. 560-568 9 p.

**Clinical prediction models for mortality in patients with covid-19: external validation and individual participant data meta-analysis**

de Jong, V. M. T., Rousset, R. Z., Antonio-Villa, N. E., Buenen, A. G., Van Calster, B., Bello-Chavolla, O. Y., Brunskill, N. J., Curcin, V., Damen, J. A. A., Fermín-Martínez, C. A., Fernández-Chirino, L., Ferrari, D., Free, R. C., Gupta, R. K., Haldar, P., Hedberg, P., Korang, S. K., Kurstjens, S., Kusters, R., Major, R. W. & 16 others, Maxwell, L., Nair, R., Naucner, P., Nguyen, Tri-Long, Noursadeghi, M., Rosa, R., Soares, F., Takada, T., van Royen, F. S., van Smeden, M., Wynants, L., Modrák, M., Asselbergs, F. W., Linschoten, M., Moons, K. G. M. & Debray, T. P. A., 2022, In: *BMJ (Clinical research ed.)*. 378, 11 p., e069881.

**Impact of housing conditions on changes in youth's mental health following the initial national COVID-19 lockdown: a cohort study**

Groot, Jonathan, Keller, A., Joensen, Andrea, Nguyen, Tri-Long, Nybo Andersen, Anne-Marie & Strandberg-Larsen, Katrine, 2022, In: *Scientific Reports*. 12, 1, 10 p., 1939.

**Impact of hypothetical improvements in the psychosocial work environment on sickness absence rates: a simulation study**

Mathisen, J., Nguyen, Tri-Long, Jensen, J. H., Mehta, A. J., Rugulies, Reiner Ernst & Rod, Naja Hulvej, 2022, In: *European Journal of Public Health*. 32, 5, p. 716–722 7 p.

**Mediation of the parental education gradient in early adult mortality by childhood adversity: a population-based cohort study of more than 1 million children**

Elsenburg, Leonie K., Rieckmann, Andreas, Nguyen, Tri-Long, Bengtsson, J., Nybo Andersen, Anne-Marie, Taylor-Robinson, D., Lange, Theis & Rod, Naja Hulvej, 2022, In: *The Lancet Public Health*. 7, 2, p. e146-e155 10 p.

**The sound of waves: tracking the pandemic**

Nguyen, Tri-Long & Kamper-Jørgensen, Mads, 2022, In: *The Lancet Infectious Diseases*. 1 p.

**Towards predicting the quality of survival after critical illness**

Nguyen, Tri-Long, Hodgson, C. L. & Boogaard, M. V. D., 2022, In: *Intensive Care Medicine*. 48, 6, p. 726–727 12 p.

**Favouring Imperfect Awareness over Perfect Ignorance: Response to Knight & Cook regarding their comment on 'Incomparability of treatment groups is often blindly ignored in randomised controlled trials – a post hoc analysis of baseline characteristic tables'**

Nguyen, Tri-Long, 2021, In: *Journal of Clinical Epidemiology*. 138, p. 238-239 12 p.

**Incomparability of Treatment Groups is Often Blindly Ignored in Randomised Controlled Trials: A Post hoc Analysis of Baseline Characteristic Tables**

Nguyen, Tri-Long & Xie, L., 2021, In: *Journal of Clinical Epidemiology*. 130, p. 161-168 8 p.

**Internal-external cross-validation helped to evaluate the generalizability of prediction models in large clustered datasets**

Takada, T., Nijman, S., Denaxas, S., Snell, K. I. E., Uijl, A., Nguyen, Tri-Long, Asselbergs, F. W. & Debray, T. P. A., 2021, In: *Journal of Clinical Epidemiology*. 137, p. 83-91 9 p.

**Reducing employee turnover in hospitals: estimating the effects of hypothetical improvements in the psychosocial work environment**

Mathisen, J., Nguyen, Tri-Long, Jensen, J. H., Rugulies, Reiner Ernst & Rod, Naja Hulvej, 2021, In: *Scandinavian Journal of Work, Environment & Health*. 47, 6, p. 456-465 10 p.

**'Standing together – at a distance': Documenting changes in mental-health indicators in Denmark during the COVID-19 pandemic**

Clotworthy, A., Dissing, A. S., Nguyen, T-L., Jensen, A. K., Andersen, T. O., Bilsteen, J. F., Elsenburg, L. K., Keller, A. C., Kusumastuti, S., Mathisen, J., Mehta, A. J., Pinot de Moira, A., Rod, M. H., Skovdal, M., Strandberg-Larsen, K., Willaing, I., Varga, T., Vinther, J. L., Xu, T., Hoeyer, K. & 1 others, Rod, Naja Hulvej, 2021, In: *Scandinavian Journal of Public Health*. 49, 1, p. 79-87 9 p.

**On Warlord Discourses – an Inclusive Storytelling is Needed for COVID-19 Response**

Nguyen, Tri-Long, 25 May 2020, In: *BMJ Global Health*. 5, 5, 1 p.

**Counterfactual Clinical Prediction Models Could help to Infer Individualised Treatment Effects in Randomised Controlled Trials – an Illustration with the International Stroke Trial**

Nguyen, Tri-Long, Collins, G. S., Landais, P. & Le Manach, Y., 2020, In: *Journal of Clinical Epidemiology*. 125, p. 47-56 10 p.

**Impact of housing conditions on changes in youth's mental health following the initial national COVID-19 lockdown: A cohort study**

Groot, Jonathan, Keller, A. C., Joensen, Andrea, Nguyen, Tri-Long, Nybo Andersen, Anne-Marie & Strandberg-Larsen, Katrine, 2020, In: *Scientific Reports*. 12, 1939.

**On the aggregation of published prognostic scores for causal inference in observational studies**

Nguyen, Tri-Long, Collins, G. S., Pellegrini, F., Moons, K. G. M. & Debray, T. P. A., 2020, In: *Statistics in Medicine*. 39, 10, p. 1440-1457 18 p.

**Microbial contamination and tissue procurement location: A conventional operating room is not mandatory. An observational study**

Louart, B., Charles, C., Nguyen, Tri-Long, Builles, N., Roger, C., Lefrant, J. Y., Vachieri-Lahaye, F., De Vos, J., Couderc, G. & Muller, L., 2019, In: *PLoS ONE*. 14, 1, 13 p., e0210140.

**The use of prognostic scores for causal inference with general treatment regimes**

Nguyen, Tri-Long & Debray, T. P. A., 2019, In: *Statistics in Medicine*. 38, 11, p. 2013-2029 17 p.

**Assessing the costs of disposable and reusable supplies wasted during surgeries**

Chasseigne, V., Leguelinel-Blache, G., Nguyen, Tri-Long, de Tayrac, R., Prudhomme, M., Kinowski, J. M. & Costa, P., 2018, In: *International Journal of Surgery*. 53, p. 18-23 6 p.

**Impact of quality bundle enforcement by a critical care pharmacist on patient outcome and costs**

Leguelinel-Blache, G., Nguyen, Tri-Long, Louart, B., Poujol, H., Lavigne, J. P., Roberts, J. A., Muller, L., Kinowski, J. M., Roger, C. & Lefrant, J. Y., 2018, In: *Critical Care Medicine*. 46, 2, p. 199-207 9 p.

**Overinterpretation and misreporting of prognostic factor studies in oncology: a systematic review**

Kempf, E., de Beyer, J. A., Cook, J., Holmes, J., Mohammed, S., Nguyen, Tri-Long, Simera, I., Trivella, M., Altman, D. G., Hopewell, S., Moons, K. G. M., Porcher, R., Reitsma, J. B., Sauerbrei, W. & Collins, G. S., 2018, In: *British Journal of Cancer*. 119, 10, p. 1288-1296 9 p.

**Postoperative Rehabilitation May Reduce the Risk of Readmission after Groin Hernia Repair**

Mercier, G., Spence, J., Ferreira, C., Delay, J. M., Meunier, C., Millat, B., Nguyen, Tri-Long & Seguret, F., 2018, In: *Scientific Reports*. 8, 1, 6759.

**Comparison of the ability of double-robust estimators to correct bias in propensity score matching analysis. A Monte Carlo simulation study**

Nguyen, Tri-Long, Collins, G. S., Spence, J., Devereaux, P. J., Daurès, J. P., Landais, P. & Le Manach, Y., 2017, In: *Pharmacoepidemiology and Drug Safety*. 26, 12, p. 1513-1519 7 p.

**Double-adjustment in propensity score matching analysis: choosing a threshold for considering residual imbalance**

Nguyen, Tri-Long, Collins, G. S., Spence, J., Daurès, J. P., Devereaux, P. J., Landais, P. & Le Manach, Y., 2017, In: *BMC Medical Research Methodology*. 17, 1, 8 p., 78.

**Identifying Life-Threatening Admissions for Drug Dependence or Abuse (ILIADDA): Derivation and Validation of a Model.**

Nguyen, Tri-Long, Boudemaghe, T., Leguelinel-Blache, G., Eiden, C., Kinowski, J. M., Le Manach, Y., Peyrière, H. & Landais, P., 2017, In: *Scientific Reports*. 7, 44428.

**Improving medication safety: Development & impact of a multivariate model-based strategy to target high-risk patients**

Nguyen, Tri-Long, Leguelinel-Blache, G., Kinowski, J. M., Roux-Marson, C., Rougier, M., Spence, J., Manach, Y. L. & Landais, P., 2017, In: *PLoS ONE*. 12, 2, 13 p., e0171995.

**Magnitude and direction of missing confounders had different consequences on treatment effect estimation in propensity score analysis**

Nguyen, Tri-Long, Collins, G. S., Spence, J., Fontaine, C., Daurès, J. P., Devereaux, P. J., Landais, P. & Le Manach, Y., 2017, In: Journal of Clinical Epidemiology. 87, p. 87-97 11 p.

**Randomized controlled trials: significant results—fragile, though**

Nguyen, Tri-Long & Landais, P., 2017, In: Kidney International. 92, 6, p. 1319-1320 2 p.

**Simple randomization did not protect against bias in smaller trials**

Nguyen, Tri-Long, Collins, G. S., Lamy, A., Devereaux, P. J., Daurès, J. P., Landais, P. & Le Manach, Y., 2017, In: Journal of Clinical Epidemiology. 84, p. 105-113 9 p.