Long Nguyen
Tenure Track Assistant Professor

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 *nở · bro*, which carries the idea of blooming and growing (*nở* 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 (couse 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: Guess 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., Naucler, 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., V 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., Vachiery-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.