



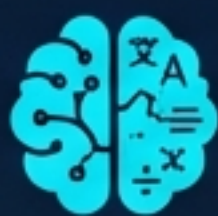
Stefan Th. Gries and the Quantitative Turn in Linguistics

Pioneering the application of quantitative, statistical, and computational methods to the study of language.



Rigorous Methodology

R, Random Forests, Multi-level Modeling



Diverse Applications

Cognitive Linguistics, SLA, Legal Interpretation



Global Impact

Supreme Court Citations, International Bootcamps, Editorial Leaders^{hip}

Decades of continuous publication drive the **quantitative turn**

Massive Output Engine

Hundreds of publications across 25 years, spanning highly specialized journal articles, edited volumes, and encyclopedic entries bridging psycholinguistics and corpus methods.



Statistics for Linguistics with R

Definitive guide across multiple editions.
Translated into Portuguese, Chinese, and Korean.



Quantitative Corpus Linguistics with R

Practical introduction to computational methods.



Multifactorial Analysis in Corpus Linguistics

Foundational text on particle placement and advanced modeling.

Producer of knowledge and infrastructure builder for the field

	Academic Output	Community & Service Output	
Monographs & Books	Authoring the definitive R-statistics guides for linguists.	International Bootcamps	Teaching 30-hour immersive R and predictive modeling bootcamps globally.
Journal Articles	Producing methodological and applied papers across top-tier journals.	Invited Plenaries	Delivering keynotes from the LSA Linguistic Institute to the China International Forum on Cognitive Linguistics.
Edited Volumes	Curating special issues including 20 years of collostructions and 20 years of CLLT.	Professional Service	Serving as Co-Editor-in-Chief of highly ranked journals and reviewing for massive global grant agencies.

Statistical methodology forms the operating system for linguistic inquiry

Quantitative Corpus Linguistics & Statistics

Overhauling Core Measures

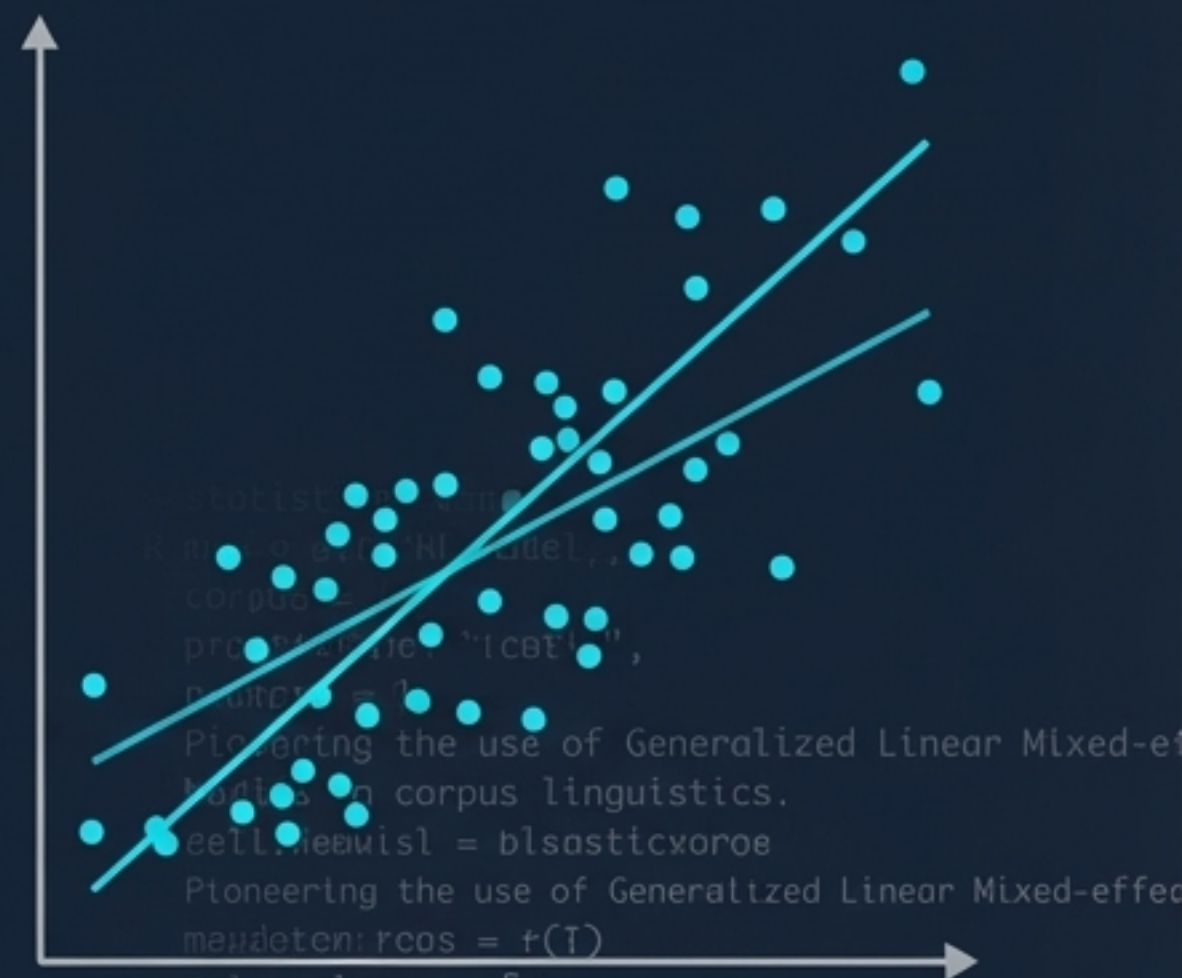
Redefining and improving metrics for frequency, dispersion, association, and keyness through tupleizing corpus-linguistic measures.

Advanced Statistical Modeling

Pioneering the use of Generalized Linear Mixed-effects Models, Random Forests, and Classification Trees in corpus linguistics.

Open-Source Tools

Developing and maintaining crucial R scripts, such as Coll.analysis, used worldwide to compute collocation analyses.



One powerful methodological engine disrupts multiple disciplines

Cognitive & Usage-Based Linguistics

Using quantitative methods to identify prototypical instances of constructions and redefine the interaction between words and grammar.

Second Language Acquisition

Applying multifactorial analysis to understand learner variation, measuring effects of L1, and contrasting EFL vs. ESL using MuPDAR.

Law and Linguistics

Extracting objective, statistical analyses of ordinary meaning from massive corpora to inform statutory interpretation.

Core Engine: Quantitative Methods, R Scripts, Random Forests, Mixed-Effects Modeling

Redefining the interaction between words and constructions

Cognitive & Usage-Based Linguistics

Pioneering Collostructional Analysis

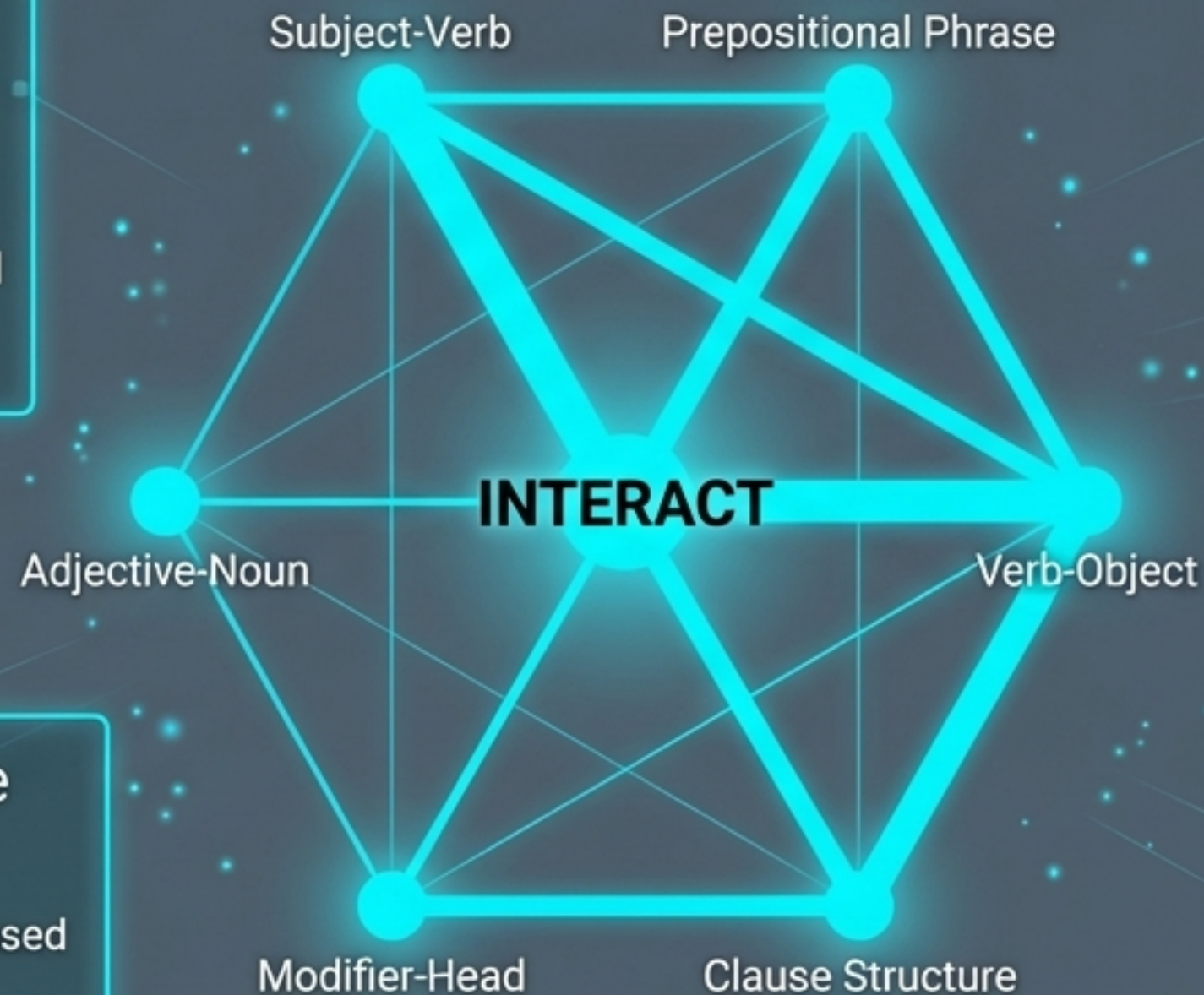
Celebrating over 20 years of collocations, a method co-developed to measure the statistical association between words and grammatical constructions.

Distinctive Collexeme Analysis

Providing empirical, corpus-based perspectives on alternations, synonymy, and antonymy.

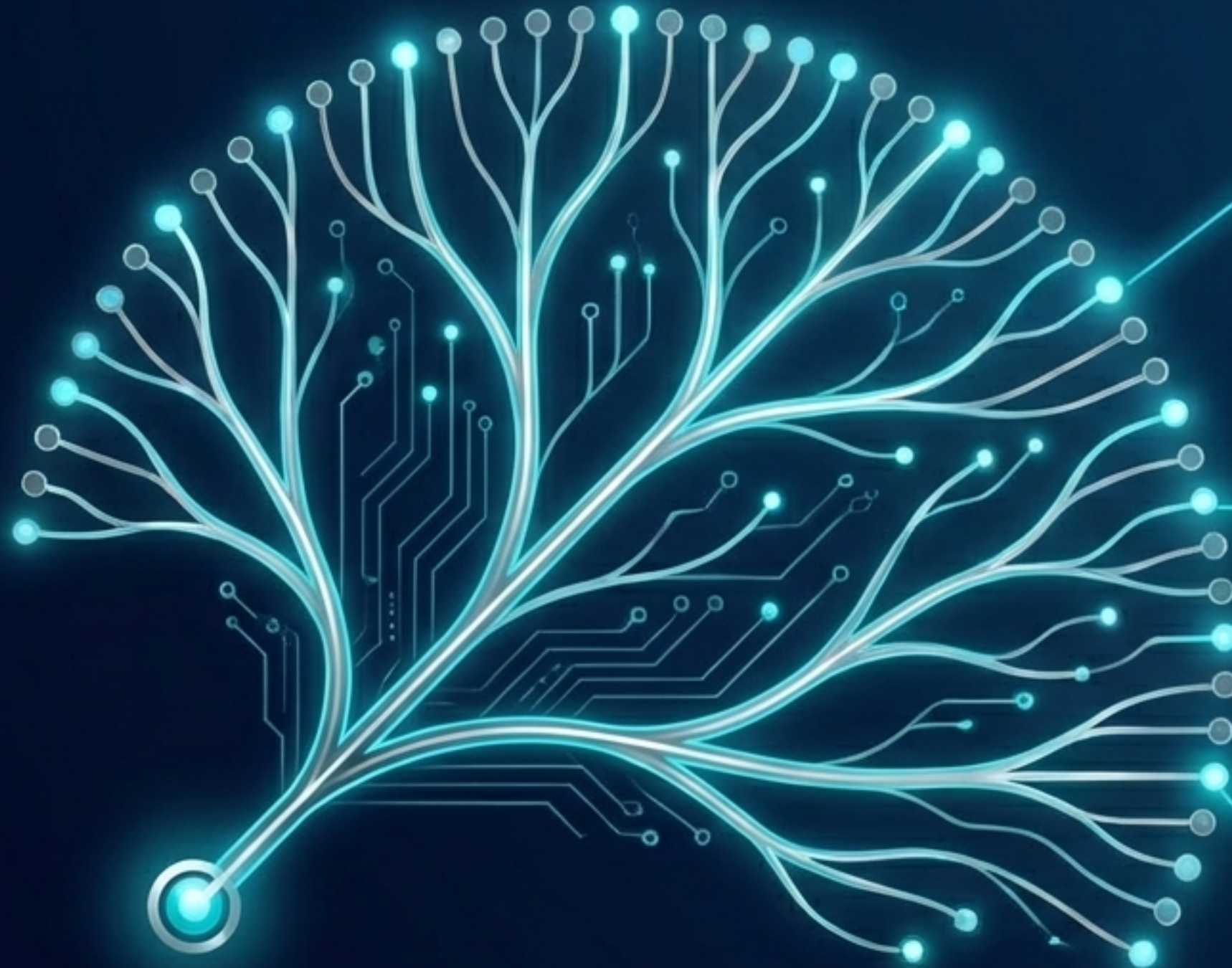
Behavioral Profiles

Developing fine-grained, quantitative approaches to lexical semantics, mapping how context and frequency shape meaning in usage-based frameworks.



Bringing multifactorial precision to Learner Corpus Research

Second Language Acquisition



The MuPDAR Approach

Improving classificatory alternation studies to quantify EFL learners' non-native linguistic choices against native speaker baselines using regression.

Explaining Individual Variation

Moving beyond simple error counting. Using mixed-effects modeling to explore how first language, context, and variation impact particle placement and genitive alternations.

Bridging Paradigms

Using multi-level regression modeling to close the paradigm gap between English as a Foreign Language (EFL) and English as a Second Language (ESL) research.

Anchoring statutory interpretation in empirical data

Law and Linguistics



Defining Ordinary Meaning

Utilizing corpus linguistics to determine the objective, historical, and public meaning of statutory language, moving from extensional to intensional approaches.

Interdisciplinary Translation

Developing frameworks to help legal scholars, judges, and linguistic practitioners talk across the aisle and utilize linguistic misunderstanding diagnostics.

Forensic Applications

Applying linguistic profiling, authorship attribution, and prosodic analysis directly to forensic linguistics and live legal cases.

From the corpus dataset to the Supreme Court

A progressive four-step path of legal impact



Identifying the historical and contemporary usage of specific contested terms in massive linguistic databases.

Applying quantitative models to determine how the public actually understands and uses the language in context.

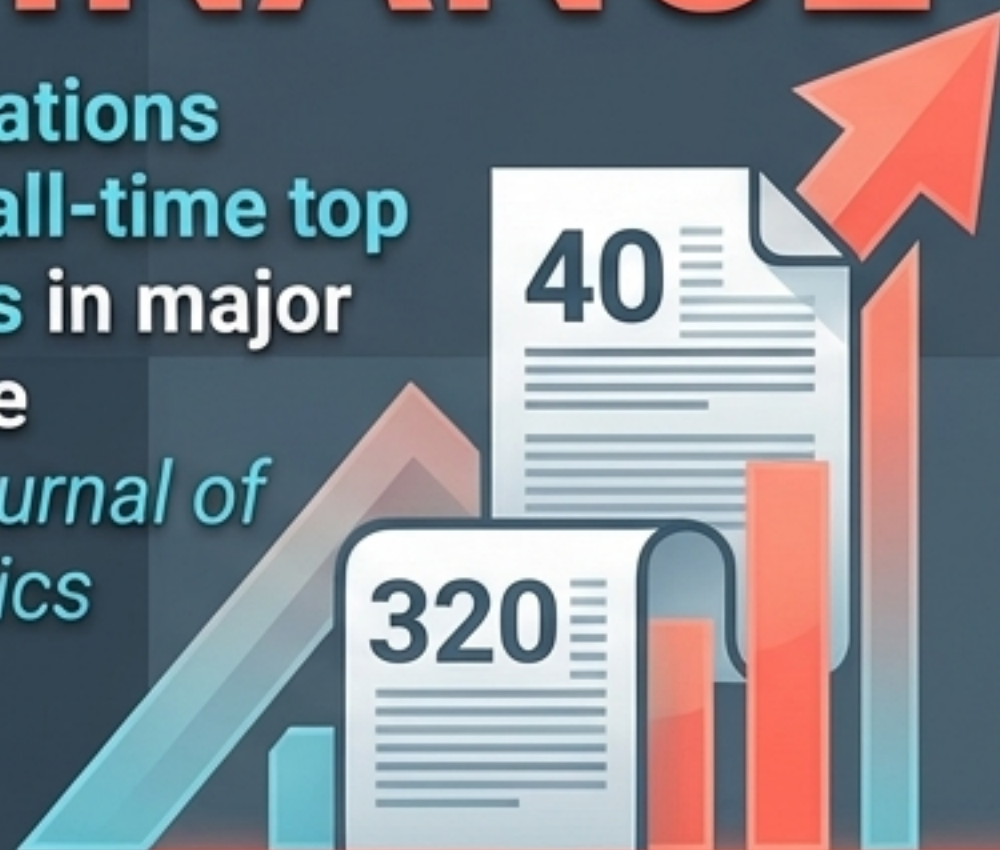
Co-authoring highly influential briefs for major appellate and Supreme Court cases (e.g., *Bostock v. Clayton County*, *Bruen*).

Research directly cited in Supreme Court decisions, including Justice Breyer's dissent, establishing corpus linguistics in American jurisprudence.

Academic influence validated through citations and premier grants

CITATION DOMINANCE

Multiple publications recognized as all-time top 10-cited papers in major journals like the *International Journal of Corpus Linguistics and Corpora*.



PRESTIGIOUS GRANT FUNDING



Co-PI

A

on major German Research Foundation (DFG) grants analyzing Multimodal Turn-Completion Cues and Epicentres in World Englishes.



Co-PI

B

on the KFAS grant investigating Dative Alternation in Kuwaiti English.



INSTITUTIONAL HONORS

Awarded the honorary Leibniz professorship at the University of Leipzig and the honorary Liebig Professor at the Justus Liebig University of Gießen. Nominated for the highest faculty honor at UC Santa Barbara.

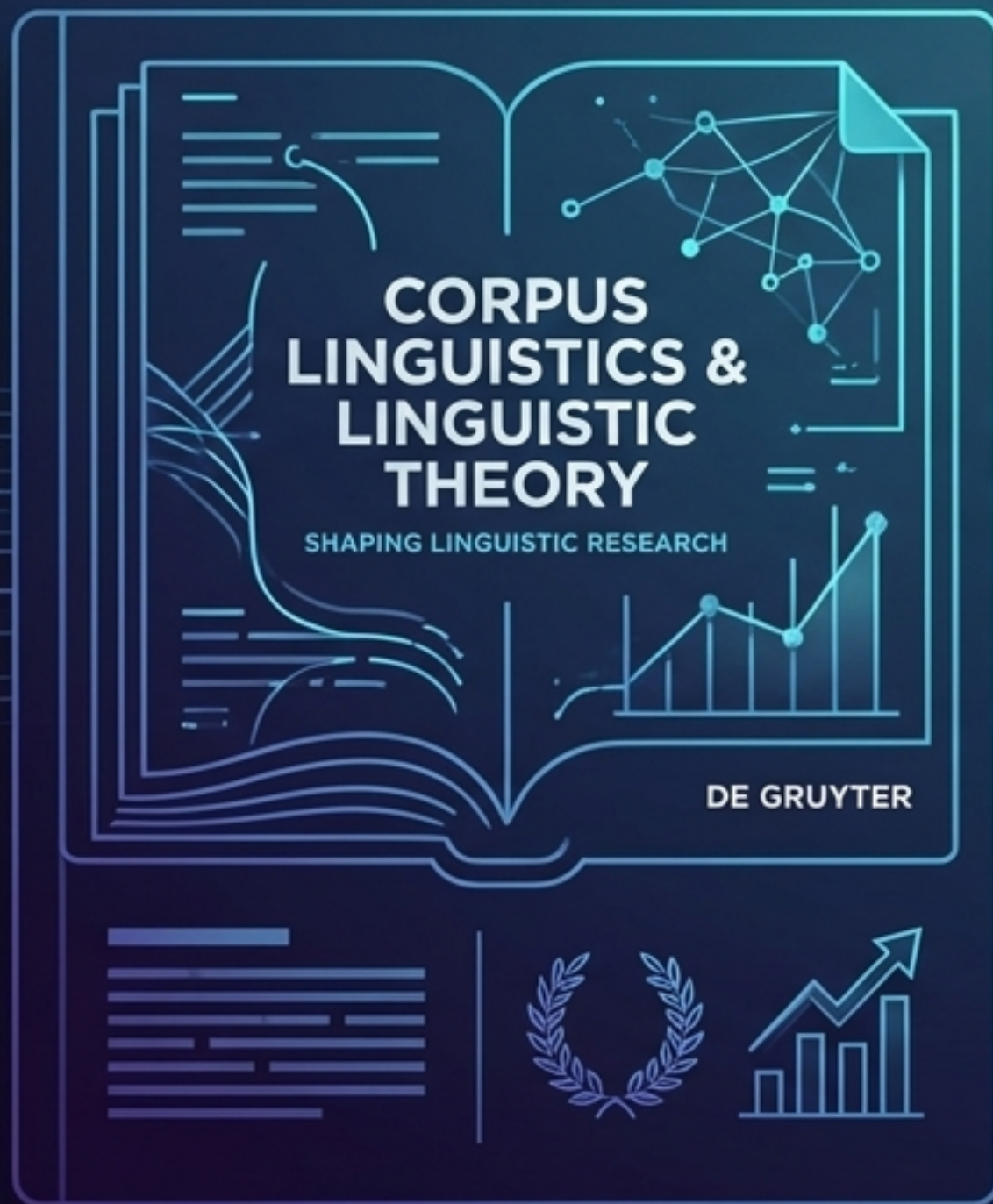
A highly sought-after international consultant and educator

Exporting Methodology Worldwide:
Training the next generation of scholars in predictive modeling and R.

- **Asia:** Bootcamps and plenaries across China (Beijing, Shanghai), Hong Kong, and Tokyo.
- **Middle East:** Workshops and consulting at Kuwait University.
- **Europe:** Extensive bootcamps at the Université catholique de Louvain, Ghent University, and across Germany, Spain, and Poland.
- **Americas:** Frequent plenaries, LSA Linguistic Institute courses, and bootcamps across the US, Canada, and Brazil.



Shaping the future of linguistic research through editorial leadership



Premier Journal Leadership

Co-Editor-in-Chief of *Corpus Linguistics and Linguistic Theory* (De Gruyter), recognized as the **highest-ranked corpus linguistics journal** in the 2024 Journal Impact Factor release.



Broad Editorial Influence

Former Co-Editor-in-Chief of the *Journal of Research Design and Statistics in Linguistics and Communication Science*.



Extensive Board Membership

Serving on the editorial and advisory boards of over 15 major international journals, including *Text and Talk*, *Corpus Pragmatics*, and *Journal of Second Language Studies*.



Global Grant Reviewer

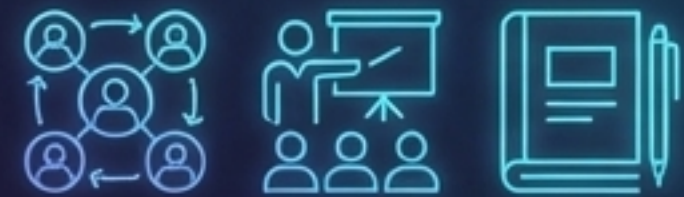
Serving on review boards for the European Research Council, the National Science Foundation, and the Flanders Research Foundation.

An ecosystem of influence that continuously advances the field



Step 1: Rigorous Methods

Statistical mastery (R, Random Forests) enables groundbreaking corpus research.



Step 4: Community Building

Expertise leads to global bootcamps and editorial roles, pushing the field to adopt rigorous methods.

Step 2: Applied Research

Methods applied to Cognitive Linguistics, SLA, and Law generate highly-cited publications.



Step 3: Global Impact

Output attracts major DFG/KFAS grants and achieves real-world legal influence at the Supreme Court.

Stefan Th. Gries has not just participated in the quantitative turn in linguistics; he built the tools, trained the scholars, and edited the journals that made it permanent.