

# ***Curriculum Vitae***

## ***Personal Data***

Name, Surname: Dr. Gaus, Dennis  
Affiliation: Dresden University of Technology  
Chair of Economics, esp. Transport Policy and Spatial Economics  
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## ***Education***

10/2017-03/2024 Graduate Center of the DIW Berlin & Berlin School of Economics  
Doctorate (Supervision: Prof. Dr. Georg Hirte, TU Dresden)  
“Highway Infrastructure and its Maintenance: Economic Effects on  
Regions and Firms in Germany”

10/2015-09/2017 Leopold-Franzens-Universität Innsbruck  
M. Sc. Applied Economics (English)  
MA: “Economic Effects of Insufficient Maintenance Funding of  
Transportation Infrastructure”

09/2016-01/2017 Semester Abroad: National Taipei University, Taipei, Taiwan

10/2012-07/2015 Management Center Innsbruck  
Business & Management (English)  
BA: “Railway Transportation in Industry 4.0”

09/2014-01/2015 Semester Abroad: University of Guelph-Humber, Toronto, Canada

03/2012 Abitur at Freiherr-vom-Stein-Gymnasium Betzdorf

## ***Work Experience & Internships***

Since 11/2024 Postdoctoral Researcher: Dresden University of Technology  
Chair of Economics, esp. Transport Policy and Spatial Economics  
Courses: Seminar Regional and Urban Economics (Bachelor)  
Research Seminars Spatial Economics, Transport Policy  
(Bachelor and Master)

05/2020-07/2024 Research Associate: DIW Berlin e.V.  
Dept. Energy, Transport, Environment; Area Transport Economics  
Project Work Transport Economics, Focus: Investment, Transport  
Infrastructure, Transport Mode Choice

03/2023-08/2023 Research Internship: OECD, Centre for Entrepreneurship, SMEs,  
Regions and Cities (CFE); Economic Analysis Unit  
Project: “Foreign Investment as a Lever for Regional Development -  
Measuring Foreign (Direct) Investment in Regions”

09/2019-12/2020 Teaching Assistant: Hertie School, Berlin  
Course: Economics I (Master)

03/2017-07/2017 Internship: DIW Berlin, Dept. Energy, Transportation, Environment  
Project Work Transport Economics, Focus: Investment

02/2015-05/2015 Internship: Deutsche Bahn AG, Dept. Corporate Strategy  
Market Analysis and Developments, Project Work

### ***Research Projects, Publications, & Presentations (Selected)***

For a full list, see separate Publication List.

Gaus, D. (2024). *Highway Infrastructure and its Maintenance: Economic Effects on Regions and Firms in Germany*. Technische Universität Dresden. (Dissertation).

Link, H., Gaus, D., Murray, N., Guajardo Ortega, M. F., Gervois, F., von Waldow, F., & Eigner, S. (2023). *Combining GPS Tracking and Surveys for a Mode Choice Model: Processing Data from a Quasi-Natural Experiment in Germany* (No. 2047; DIW Discussion Papers).

Gaus, D., Murray, N., & Link, H. (2023). 9-Euro-Ticket: Niedrigere Preise allein stärken Alltagsmobilität mit öffentlichen Verkehrsmitteln nicht. In *DIW Wochenbericht* (Issue 14+15/2023).

Gaus, D., & Link, H. (2021). Highway Conditions and Insufficient Maintenance in Germany: A Threat for Economic Growth? *Journal of Transport Economics and Policy*, 55(4), 308–333.

Link, H., Gaus, D., Murray, N. (2020): *Ökonometrische Bestimmung der Grenzkosten (unmittelbare Kosten des Zugbetriebes) für die laufende Unterhaltung und die Erneuerungsinvestitionen bei DB Netz: Endbericht*. DIW.

Conference of the International Transportation Economics Association 2019-2023  
Congress of the European Regional Science Association 2019-2022

### ***Other Qualifications***

Foreign Languages	English	fluent orally and written
	Spanish	Level B1/2, 4 years of study
	Latin	“großes Latinum”, 7 years of study

PC/IT knowledge	R, Stata, Office
	LaTeX, QGIS, Leaflet, Docker, VBA

Dresden, October 7, 2024  
Dennis Gaus

### ***Third Party funded Projects***

- Economic significance of the German rail sector based on investment activity. (DZSF, 2022-2024)
  - Greinus, A., Zimmermann, M., Esche, C., Peter, M., Link, H., Gaus, D. (i.E.). *Gesamtwirtschaftliche Bedeutung des deutschen Bahnsektors auf Grundlage der Investitionstätigkeit: Schlussbericht*. DZSF.
- Research, calculation, and compilation of data for the yearly handbook “Verkehr in Zahlen”. (BMDV, 2019-2024).
  - DLR/DIW. (2020-2022). *Verkehr in Zahlen 2020/2021 bis 2022/2023 + Report of Methods* (BMVI (ed.)). KBA.
- Econometric determination of the direct costs of train operation for ÖBB AG. (ÖBB-Infrastruktur AG, 2021-2022)
  - Link, H., Gaus, D., Murray, N. (2022): *Quantifizierung der Instandhaltungs- und erneuerungsbezogenen Grenzkosten des Zugbetriebes im Netz der ÖBB auf Basis ökonomischer Analysen: Endbericht*. DIW.
- Econometric determination of the direct costs of train operation for DB Netz AG. (DB Netz AG, 2019-2020 & 2022-2023)
  - Link, H., Gaus, D., Murray, N. (2020, 2023): *Ökonomische Bestimmung der Grenzkosten (unmittelbare Kosten des Zugbetriebes) für die laufende Unterhaltung und die Erneuerungsinvestitionen bei DB Netz: Endbericht*. DIW.
- Update of content and methodological enhancement of the fixed capital model for the transport sector. (BMVI, 2017-2019)
  - Link, H., Gaus, D., & Kunert, U. (2019). *Projektbericht: Inhaltliche Aktualisierung und methodische Weiterentwicklung der Anlagevermögensrechnung für den Verkehrssektor*. DIW.

### ***Internally funded Projects***

- The Deutschlandticket as a contribution to sustainable mobility: An analysis based on tracking data. (2023-2025).
- Demand effects of the 9 Euro ticket: An innovative revealed preferences approach using tracking data. (2022-2023).
  - Link, H., Gaus, D., Murray, N., Guajardo Ortega, M. F., Gervois, F., von Waldow, F., & Eigner, S. (2023). *Combining GPS Tracking and Surveys for a Mode Choice Model: Processing Data from a Quasi-Natural Experiment in Germany* (No. 2047; DIW Discussion Papers).
  - Gaus, D., Murray, N., & Link, H. (2023). 9-Euro-Ticket: Niedrigere Preise allein stärken Alltagsmobilität mit öffentlichen Verkehrsmitteln nicht. In *DIW Wochenbericht* (Issue 14+15/2023).

### ***Further Publications***

- Gaus, D., & Daniele, F. (2024). *Transport Accessibility and Foreign Investment: An Empirical Analysis of European Regions* (OECD Regional Development Papers).
- OECD. (Forthcoming). *Measuring FDI in Regions*. OECD Publishing
- Gaus, D. (2024). *Highway Infrastructure and its Maintenance: Economic Effects on Regions and Firms in Germany*. Technische Universität Dresden. (Dissertation)

- Gaus, D., & Hirte, G. (2023). *Agglomeration or Market Access? The defining Factors of Firms' Location Choice* (No. 2045; DIW Discussion Papers).
- Gaus, D., & Link, H. (2021). Highway Conditions and Insufficient Maintenance in Germany: A Threat for Economic Growth? *Journal of Transport Economics and Policy*, 55(4), 308–333.
- Gaus, D., & Link, H. (2020). *Economic Effects of Transportation Infrastructure Quantity and Quality: A Study of German Counties* (No. 1848; DIW Discussion Papers).

### **Presentations**

- Gaus, D. (2024). Who buys and who doesn't? The purchase decision on public transport season tickets and the Deutschland-Ticket. *ITEA Conference 2024*. Leeds: International Transportation Economics Association.
- Guajardo Ortega, M. F., Gaus, D., Graham, D., Hörcher, D., Link, H., Murray, N. (2023). Estimating the price elasticity of public transport after a price intervention: evidence from a quasi-natural experiment in Germany. *ITEA Conference 2023*. Santander: International Transportation Economics Association.
- Gaus, D. (2022). Agglomeration or market access? The defining factors of firms' location choice. *ERSA Congress 2022*. Pécs: European Regional Science Association.
- Gaus, D. (2022). Closed Roads and Broken Bridges: The Impact of Transport Restrictions on the Productivity of Firms. *ITEA Conference 2022*. Toulouse: International Transportation Economics Association.
- Gaus, D. (2021). Failing Infrastructure, Market Access, and Productivity: Evidence from German Firms. *ERSA Congress 2021*. Bolzano (Online): European Regional Science Association.
- Gaus, D. (2021). Failing Infrastructure, Market Access, and Productivity: Evidence from German Firms. *ITEA Conference 2021*. Rome (Online): International Transportation Economics Association.
- Gaus, D., & Link, H. (2019). Economic Effects of Transportation Infrastructure Quantity and Quality: A Study on German Counties. *European Transport Conference 2019*. Dublin: Association for European Transport.
- Gaus, D., & Link, H. (2019). Economic Effects of Transportation Infrastructure Quantity and Quality: A Study on German Counties. *ERSA Congress 2019*. Lyon: European Regional Science Association.
- Gaus, D., & Link, H. (2019). Economic Effects of Transportation Infrastructure Quantity and Quality: A Study on German Counties. *ITEA Conference 2019*. Paris: International Transportation Economics Association.
- Gaus, D., & Link, H. (2019). Auswirkungen von Quantität und Qualität der Bundesfernstraßen auf die regionale Produktivität in Deutschland. *Conference Verkehrsökonomik und -politik 2019*. Berlin: Technische Universität Berlin.
- Gaus, D. (2018-2020). Various titles. *Workshops of the Graduate Center of the DIW Berlin e.V.* Berlin: DIW.