

# Curriculum Vitae

Achim I. Czerny

23 May 2024

## CONTACT

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## EDUCATION

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Dr., Economics ( <i>summa cum laude</i> ); TU Berlin, Germany	2007
Diploma, Economics; Technische Universität Berlin	2001

## EMPLOYMENT

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Full Professor	Since 2023
Associate Professor, Director BBA (Hons) Programme in Aviation Management and Logistics, Co-ordinator Minor Programme in Business Administration Department of Logistics and Maritime Studies The Hong Kong Polytechnic University, Hong Kong	Since 2015
Post-doc researcher, Department of Spatial Economics, VU University Amsterdam, Fellow Tinbergen Institute, The Netherlands	2014-15
Assistant Professor of Regulatory Economics, WHU – Otto Beisheim School of Management, Germany	2008-14
Doctoral student, Teaching Assistant, Technische Universität Berlin	2001-08

## GENERAL RESEARCH FUND, RESEARCH GRANTS COUNCIL, HONG KONG

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1. “Reliable transport schedules: not worth the effort?” Investigators: Czerny, A.I. (PI), Guo, P. (CI) and Hassin, R. (CI); HKD300,060 2019-20
2. “Optimal tournament durations: The longer, the better?” Investigators: Czerny, A.I. (PI) and Song, M. (CI); HKD403,495 2021-23
3. “The cost of regulation: How use-it-or-lose-it changes airline schedules;” Investigators: Czerny, A.I. (PI), Gaggero, A. (CI), and van Ommeren, J.N. (CI); HKD596,993 2022-24
4. “Aircraft bellies, do they matter for passengers?” Investigators: Czerny, A.I. (PI), Brueckner, J.K. (CI), Gaggero, A.A. (CI); HKD740,593 2023-25

## OTHER COMPETITIVE AND PEER-REVIEWED GRANTS

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5. Social Sciences and Humanities Research Council of Canada: “Tradable permits versus congestion fees for transportation facilities with uncertain supply and demand” Investigators: Zhang, A. (award holder), Lindsey, R. (CI), De Palma, A.; Collaborators: Czerny, A.I., Verhoef, E., Mercenier, J., Denant-Boemong, Proost, S.; CAN\$265,650 2019-24

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## REFEREED JOURNAL PUBLICATIONS

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1. Czerny, A. I. (2006). Price-cap regulation of airports: single-till versus dual-till. *Journal of Regulatory Economics* 30, 85-97.
2. Czerny, A. I. (2009). Code-sharing, price discrimination and welfare losses. *Journal of Transport Economics and Policy* 43, 193-212.
3. Czerny, A. I. (2010). Airport congestion management under uncertainty. *Transportation Research Part B* 44, 371-380.
4. Czerny, A. I. and Zhang, A. (2011). Airport congestion pricing and passenger types. *Transportation Research Part B* 45, 595-604.
5. Zhang, A. and Czerny, A. I. (2012). Airports and airlines economics: An interpretive review of recent research. *Economics of Transportation* 1, 15-34.
6. Czerny, A. I. (2013). Public versus private airport behavior when concession revenues exist. *Economics of Transportation* 2, 38-46.
7. Czerny, A. I., Höffler, F. and Mun, S. (2014). Hub port competition and welfare effects of strategic privatization. *Economics of Transportation* 3, 211-220.
8. Czerny, A. I. and Zhang, A. (2014). Airport peak-load pricing revisited: The case of peak and uniform tolls. *Economics of Transportation* 3, 90-101.
9. Czerny, A. I. and Zhang, A. (2014). Airport congestion pricing when airlines price discriminate. *Transportation Research Part B* 65, 77-89.
10. Czerny, A. I. and Zhang, A. (2015). Third-degree price discrimination in the presence of congestion externality. *Canadian Journal of Economics* 48, 1430-1455.
11. Czerny, A. I. and Zhang, A. (2015). How to mix per-passenger and per-flight based airport charges. *Transportation Research Part A* 71, 77-95.
12. Czerny, A. I. (2015). The role of capital costs for airline responses to emission charges. *Journal of Transport Economics and Policy* 49, 475-495.
13. Czerny, A. I., Shi, Z. and Zhang, A. (2016). Can market power be controlled by regulation of core prices alone? An empirical analysis of airport demand and car rental price. *Transportation Research Part A* 91, 260-272.
14. Czerny, A. I., van den Berg, V.A.C. and Verhoef, E. T. (2016). Carrier collaboration with endogenous fleets and load factors when networks are complementary. *Transportation Research Part B* 94, 285-297.
15. Czerny, A. I., Guiomard, C. and Zhang, A. (2016). Single-till versus dual-till regulation of airports: where do academics and regulators (dis)agree? *Journal of Transport Economics and Policy* 50, 350-368.
16. Czerny, A. I., Cowan, S. and Zhang, A. (2017). How to mix per-passenger and per-flight based airport charges: The oligopoly case. *Transportation Research Part B* 104, 483-500.
17. Czerny, A. I., and Lang, H. (2019). A pricing versus slots game in airport networks. *Transportation Research Part B* 125, 151-174.
18. Czerny, A. I., Jost, P.-J., van Ommeren, J. N., and Fosgerau, M. (2019). Why pay for jobs (and not for tasks)? *Journal of Economic Behavior and Organization* 168, 419-433.
19. Wang, K., Fu, X., Czerny, A. I., Hua, G., Lei, Z. (2020). Modelling the Potential for Aviation Liberalization in Central Asia - Market Analysis and Implications for the Belt and Road initiative. *Transportation Research Part A* 134, 184-210.
20. Czerny, A. I. and Zhang, H. (2020). Rival airport ancillary and city-center supplies. *Transportation Research Part E* 141, 101987.
21. Czerny, A. I., Fu, X., Lei, Z. and Oum, T. H. (2021). Post pandemic aviation market recovery: Experiences and lessons from China. *Journal of Air Transport Management* 90, 101971.
22. Czerny, A. I., Jost, P.-J., Lang, H., Mantin, B. (2021). Carrier collaboration with endogenous networks: Or, the limits of what carrier collaboration can achieve under antitrust immunity. *Journal of Air Transport Management* 94, 102060.

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23. Brueckner, J. K., Czerny, A. I., Gaggero, A. (2021). Airline mitigation of propagated delays: Theory and empirics on the choice of schedule buffers. *Transportation Research Part E* 150, 102333.
  24. Brueckner, J. K., Czerny, A. I., Gaggero, A. (2021). Airline schedule buffers and flight delays: A discrete model. *Economics of Transportation* 26-27, 100218.
  25. Lang, H. and Czerny, A. I. (2022). How (grandfathered) slots can be a first-best policy for a congested airport whereas prices cannot. *Journal of Transport Economics and Policy* 56, 217-242.
  26. Lang, H. and Czerny, A. I. (2022). Airport pricing versus (grandfathered) slots: A generalization. *Economics of Transportation*, 100249.
  27. Brueckner, J. K., Czerny, A. I. and Gaggero, A. A. (2022). Airline Delay Propagation: A Simple Method for Measuring its Extent and Determinants. *Transportation Research Part B* 162, 55-71.
  28. Czerny, A. I., Guo, P. and Hassin, R. (2022). Shall firms withhold exact waiting time information from their customers? A transport example. *Transportation Research Part B* 166, 128-142.
  29. Zhang, H., Czerny, A. I., Grimme, W., Niemeier, H.-M. (2023). Network developments of the big three EU low cost carriers before and during the pandemic. *Research in Transportation Economics* 97, 101235.
  30. Lang, H. and Czerny, A. I. (2023). Comparison of decentralized slot and pricing policies when airports are substitutes for non-local passengers. *Transportation Research Part A* 171, 103641.
  31. Czerny, A. I. and Lang, H. (2023). Modeling airport networks for theoretical policy analyses. *Journal of the Air Transport Research Society* 1, 54-62.
  32. Czerny, A. I. and Fukui, H. (2024). Misallocation in multiple airport regions. *Journal of the Air Transport Research Society* 2, 100010.

#### **SELECTED WORKING PAPERS**

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33. Czerny, A. I. (second round revise-resubmit *Economics of Transportation*). Optimal use-it-or-lose-it rules for airport slot management. Available at SSRN: <https://ssrn.com/abstract=3243395>.

#### **OTHER PUBLICATIONS**

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34. Czerny, A.I. and Mitusch, K. (2005). Cooperation and competition in the cargo liner shipping industry. *Internationales Verkehrswesen*, Nr. 12: 553-557.
35. Czerny, A.I. (2008). Congestion management at airports under uncertainty. In: Czerny, A. I., Forsyth, P., Gillen, D. and Niemeier, H.-M. (Editors). *Airport Slots: International Experiences and Options for Reform*, Ashgate, 2008.
36. Czerny, A.I. (2021). Airport regulation. *International Encyclopedia of Transportation*. Elsevier.
37. Czerny, A.I. and Lang, H. (2021). Privatization and deregulation of the airline industry. *International Encyclopedia of Transportation*. Elsevier.
38. Czerny, A.I. and Mun, S.-I. (2022). An Infrastructure Investment game: Or, why the Belt and Road Initiative can represent an equilibrium outcome. In: Lee, P.T.-W., Fu, X. and Czerny, A.I. (2022). *Market Development and Policy for One Belt One Road*. Elsevier.
39. Czerny, A.I. and Peer, S. (forthcoming). Transport pricing: Theory and methodologies. In: Tirachini, A., Hoercher, D. and Verhoef, E. (forthcoming). *A Handbook on Transport Pricing and Financing*. Edward Elgar.
40. Czerny, A.I. and Forsyth, P. (forthcoming). Optimising investment in regulated airports. Forthcoming chapter in a Springer book on airport regulation.

#### **RECENT PRESENTATIONS**

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**Conferences:** POMS Hong Kong, Transportation and Space-time Economics (Beijing Jiaotong University), Transportation and Public Utilities Group (Part of the US Allied Social Sciences Association), International Transportation Economics Association, Air Transport Research

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Society, International Forum on Shipping, Ports and Airports; **Invited seminars/presentations:** International Young Scholars Forum Sub-forum at Business School of Sichuan University, Shanghai Maritime University, Tokyo University, Hitotsubashi University, University of Bergamo; **Webinars:** Knowledge and Transfer Forum of the Faculty of Business of The Hong Kong Polytechnic University, aireg, German Aviation Research Society (GARS), World Conference Transportation Research (WCTR), airliners.de

## **EDITING**

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**Editorial Board:** Research in Transportation Economics, Journal of the Air Transport Research Society, Journal of Shipping and Trade, Transport Policy; **Guest Editor Special Issues:** International Journal of Shipping and Transport Logistics, Journal of Air Transport Management, Transportation Research Part A, Transportation Research Part E, Journal of Transport Economics and Policy; **Books:** Czerny, A.I., Forsyth, P., Gillen, D. and Niemeier, H.-M (2008). Airport Slots: International Experiences and Options for Reform. Ashgate. (English and Chinese); Lee, P.T.-W., Fu, X. and Czerny, A.I. (2022). Market Development and Policy for One Belt One Road. Elsevier.

## **STUDENT SUPERVISION**

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**The Hong Kong Polytechnic University:** Hao Lang (PhD), Chief Supervisor, graduated; Hanxiang Zhang (PhD), Chief Supervisor; Gu, Hongyi (PhD), Co-Supervisor; Chief Supervisor of one student and one student group under the Undergraduate Research and Innovation Scheme (URIS); Chief Supervisor of Master Theses; Supervisor of more than 50 BBA student Capstone Groups; **WHU – Otto Beisheim School of Management:** Co-Supervisor of Fabian Frank (PhD) and Matthias Rödl (PhD), both graduated

## **AWARDS**

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PolyU Business School (PBS) Fellow Award 2021/22, Faculty Service Prize 2018, Faculty Teaching Prize 2017, ITEA Conference on Transportation Economics Best Overall Paper Prize 2014 (together with Anming Zhang). Certificates of Excellence in Reviewing 2013 Transportation Research Part B and 2022 Transportation Research Part D.

## **TEACHING EXPERIENCES**

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**The Hong Kong Polytechnic University:** Research seminar (PhD), Maritime and Air Transport Economics (PhD), Air Transport Regulatory Policy (MSc), Airport Management (BBA), Capstone Project Seminar (BBA). **Hong Kong International Aviation Academy:** Financial Management. **WHU – Otto Beisheim School of Management:** Econometrics Basics (PhD), Advanced Econometrics: Time-Series Analysis (PhD). Practical Business Forecasting (MSc), Microeconomics (BSc), Mathematics (BSc), International Management (BSc). **TU Berlin (Diploma Students):** Infrastructure Theory and Policy, Transport Economics, Advanced Microeconomics, Game and Contract Theory, Project Studies. **Guest lectures:** Kyoto University, Cranfield University, VU University Amsterdam, Toulouse Business School. **Conference Schools:** Air Transport Research Society (ATRS) Annual Conference 2021, International Forum on Shipping, Ports and Airports (IFSPA) 2022, German Aviation Research Society (GARS) Junior Workshop (several), Transportation and Space-time Economics 2019 at Beijing Jiaotong University.

## **SERVICES TO THE HONG KONG POLYTECHNIC UNIVERSITY**

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**Programme management:** Director BBA (Hons) Programme in Aviation Management and Logistics; Co-ordinator Minor Programme in Business Administration; **Committees:** Member of the Departmental Undergraduate Programme Committee (DUPC), Departmental Learning and Teaching Committee (DLTC), Member of a Committee for the revamping of the MBA programmes, BBA Scheme Committee; **Other:** Regular interviewer of applicants for the MSc Programme in Business Management offered by the Faculty of Business.

## SERVICES TO THE PROFESSION AND SOCIETY

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**Conference, workshop, webinar organization:** International Transport Economics Associate (ITEA) Annual conference 2018 Chair Organizing Committee; German Aviation Research Society (GARS) Junior Research Workshops (several) Chair Organizing Committee; European Aviation Conference (EAC) Advisory Committee; GARS Webinars (several) organizer and moderator; The Hong Kong Polytechnic University Faculty of Business Webinar and a MBA webinar; **Recent reviews:** Case Studies on Transport Policy, Economics of Transportation, Journal of Air Transport Management, Journal of Regulatory Economics, Journal of Transport Economics and Policy, Research in Transportation Economics, Transport Policy, Transportation Research Part A, Transportation Research Part B, Transportation Research Part C, Transportation Research Part D, Transportation Research Part E; **Associations:** aireg active, member; Air Transportation Research Society (ATRS), Executive Committee member; German Aviation Research Society (GARS) chairman; International Transport Economics Association (ITEA), Nominating and Venue Committee member; European Aviation Conference Institute (EACI), board member; **Newspaper journalist and radio interviews (selection):** airliners.de, Financial Times, RTHK, South China Morning Post, Wall Street Journal; **External Advisor:** UOW College Hong Kong, Specialist of the Hong Kong Council for Accreditation of Academic and Vocational Qualifications.

## CONSULTING

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1. Economic regulation of rail infrastructure companies (Ökonomische Grundsatzfragen zur Gestaltung einer Anreizregulierung der Eisenbahninfrastruktur), commissioned by the German Federal Network Agency (Bundesnetzagentur), 2011. Co-authors: Beckers, T., Brenck, A., Mitusch, K. and Peter, B.
2. Noise reduction measures for rail cargo traffic (Der Weg zum leiseren Schienengüterverkehr. Anreize für die Umrüstung von Güterwagen auf Flüstersohlen), commissioned by the German Federal Ministry for Transport and Construction (Bundesministerium für Verkehr, Bau und Stadtentwicklung), 2007. Co-authors: Brenck, A., Mitusch, K., Pache, E., Peter, B., Rösch, F. and de Vos, P.
3. Rail infrastructure allocation policies, research study commissioned by the German Federal Ministry for Education and Research, 2002-2010. The interdisciplinary research team consisted of Economists, Mathematicians and Engineers.
4. The application of competition rules to liner shipping, commissioned by the European Commission DG Comp, 2005. Co-authors and partners: Lukac, S., Mitusch, K., Global Insight (Washington, Paris) and Institute of Shipping Economics and Logistics (Bremen, Germany).
5. Privatization and regulation of German airports (Privatisierung und Regulierung der deutschen Flughäfen), report for Deutsche Bank Research, 2004. Co-authors: Beckers, T., von Hirschhausen, C. and Müller, S.