



ALEXANDER DUNKEL

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Senior Scientist

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01 EDUCATION

- 2010–2016 **Technische Universität Dresden**, Germany
Doctorate of Engineering in Landscape & Urban Planning,
with highest honors (summa cum laude)
- 2004–2010 **Technische Universität Dresden**, Germany
Landscape Architecture, Dipl.-Ing., MLA equiv.
- 2004 **Technische Universität Cottbus**, Germany
Design & Media Technology

02 ACADEMIC APPOINTMENTS

- 2024–present **Leibniz Institute of Ecological Urban and Regional Development**, Dresden, Germany
Senior Scientist (tenure track), Transformative Capacities (FBT) & Research Data Centre (IOER-RDC)
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- 2017–2023 **Technische Universität Dresden**, Germany
Cartographic Communication, Faculty of Environmental Sciences
Research Associate
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- 2011–2012 **University of California, Berkeley**, USA
Department of Landscape Architecture and Environmental
Planning, College of Environmental Design
International Research Scholar
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- 2010–2017 **Technische Universität Dresden**, Germany
Department of Landscape Architecture & Environmental
Planning, Faculty of Architecture
Research Associate
- 2004–2008 **Technische Universität Dresden**, Germany
Teaching & Research Assistant

03 PROFESSIONAL EXPERIENCE

- 2008–2009 **Peter Walker and Partners Landscape Architecture**, Berkeley, USA
- 2007 **CMG Landscape Architecture**, San Francisco, USA
- 2005 **Prussian Palaces and Gardens Foundation**, Berlin-Brandenburg,
Sanssouci, Potsdam, Germany

04 SCHOLARLY WORK

PEER REVIEWED (first-authored)

- 2024 **Dunkel, A., Burghardt, D. & Gugulica, M. (2024).** *Generative Text-to-Image Diffusion for Automated Map Production Based on Geosocial Media Data*. KN J. Cartogr. Geogr. Inf. (2024). [10.1007/s42489-024-00159-9](https://doi.org/10.1007/s42489-024-00159-9)
- 2023 **Dunkel, A., Hartmann, M. C., Hauthal, E., Burghardt, D., & Purves, R. S. (2023).** *From sunrise to sunset: Exploring landscape preference through global reactions to ephemeral events captured in georeferenced social media*. PLOS ONE, 18(2), e0280423. DOI: [10.1371/journal.pone.0280423](https://doi.org/10.1371/journal.pone.0280423)
- 2020 **Dunkel, A., Löchner, M., & Burghardt, D. (2020).** *Privacy-aware visualization of volunteered geographic information (VGI) to analyze spatial activity: a benchmark implementation*. ISPRS International Journal of Geo-Information, 9(10). DOI: [10.3390/ijgi9100607](https://doi.org/10.3390/ijgi9100607)
- 2019 **Dunkel, A., Andrienko, G., Andrienko, N., Burghardt, D., Hauthal, E., & Purves, R. (2019).** *A conceptual framework for studying collective reactions to events in location-based social media*. International Journal of Geographical Information Science, 33(4), 780–804. DOI: [10.1080/13658816.2018.1546390](https://doi.org/10.1080/13658816.2018.1546390)
- 2015 **Dunkel, A. (2015).** *Visualizing the perceived environment using crowdsourced photo geodata*. Special Issue: Critical Approaches to Landscape Visualization, Landscape and Urban Planning, 142, 173–186. DOI: [10.1016/j.landurbplan.2015.02.022](https://doi.org/10.1016/j.landurbplan.2015.02.022)

ARTICLES & CONFERENCE PAPERS (co-authored)

- 2023 **Weckmüller, D., & Dunkel, A. (2023).** *An application-oriented implementation of hexagonal on-the-fly binning metrics for city-scale georeferenced social media data*. The International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences, XLVIII-4/W7-2023, 253–260. DOI: [10.5194/isprs-archives-XLVIII-4-W7-2023-253-2023](https://doi.org/10.5194/isprs-archives-XLVIII-4-W7-2023-253-2023)
- 2022 **Weckmüller, D., & Dunkel, A. (2022).** *Developing a privacy-aware map-based cross-platform social media dashboard for municipal decision-making*. The International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences, XLVIII-4/W1-2022, 545–552. DOI: [10.5194/isprs-archives-XLVIII-4-W1-2022-545-2022](https://doi.org/10.5194/isprs-archives-XLVIII-4-W1-2022-545-2022)
- 2021 **Hecht, R., Artmann, M., Brzoska, P., Burghardt, D., Cakir, S., Dunkel, A., Gröbe, M., Gugulica, M., Krellenberg, K., Kreutzarek, N., Lautenbach, S., Ludwig, C., Lümckemann, D., Meinel, G., Schorcht, M., Sonnenbichler, A., Stanley, C., Tenikl, J., Wurm, M., & Zipf, A. (2021).** *A web app to generate and disseminate new knowledge on urban green space qualities and their accessibility*. ISPRS Annals of the Photogrammetry, Remote Sensing and Spatial Information Sciences, VIII-4/W1-2021, 65–72. DOI: [10.5194/isprs-annals-VIII-4-W1-2021-65-2021](https://doi.org/10.5194/isprs-annals-VIII-4-W1-2021-65-2021)
- 2021 **Hauthal, E., Dunkel, A., & Burghardt, D. (2021).** *The Representation of Spatial Context by Emojis within Location based Social Media*. Abstracts of the ICA, 3, 1–1. DOI: [10.5194/ica-abs-3-102-2021](https://doi.org/10.5194/ica-abs-3-102-2021)
- 2021 **Hauthal, E., Dunkel, A., & Burghardt, D. (2021).** *Emojis as Contextual Indicants in Location-Based Social Media Posts*. ISPRS International Journal of Geo-Information, 10(6), 407. DOI: [10.3390/ijgi10060407](https://doi.org/10.3390/ijgi10060407)

ARTICLES & CONFERENCE PAPERS (co-authored)

- 2020 **Löchner, M., Fathi, R., Schmid, D., Dunkel, A., Burghardt, D., Fiedrich, F., & Koch, S. (2020).** *Case Study on Privacy-Aware Social Media Data Processing in Disaster Management*. ISPRS International Journal of Geo-Information, 9(12), 709. DOI: [10.3390/ijgi9120709](https://doi.org/10.3390/ijgi9120709)
- 2020 **Gröbe, M., Dunkel, A., & Burghardt, D. (2020).** *A new web map for the MeinGrün app*. Abstracts of the ICA, 2, 1–2. DOI: [10.5194/ica-abs-2-8-2020](https://doi.org/10.5194/ica-abs-2-8-2020)
- 2019 **Löchner, M., Dunkel, A., & Burghardt, D. (2019).** *Protecting privacy using HyperLogLog to process data from Location Based Social Networks*. In LESSON 2019—1st International Workshop on Legal and Ethical Issues in Crowdsourced Geographic Information. [URL](#)
- 2019 **Andrienko, N., Andrienko, G., Chen, S., Burghardt, D., Dunkel, A., & Purves, R. (2019).** *Geovisual analysis of VGI for understanding people's behaviour in relation to multifaceted context*. Abstracts of the ICA, 1, 1–2. DOI: [10.5194/ica-abs-1-10-2019](https://doi.org/10.5194/ica-abs-1-10-2019)
- 2019 **Hauthal, E., Burghardt, D., & Dunkel, A. (2019).** *Analyzing and Visualizing Emotional Reactions Expressed by Emojis in Location-Based Social Media*. ISPRS International Journal of Geo-Information, 8(3), 113. DOI: [10.3390/ijgi8030113](https://doi.org/10.3390/ijgi8030113)
- 2018 **Löchner, M., Dunkel, A., & Burghardt, D. (2018).** *A privacy-aware model to process data from location-based social media*. VGI Geovisual Analytics Workshop, colocated with BDVA 2018. Konstanz, Germany, 19. Oct. 2018. URN: [urn:nbn:de:bsz:352-2-1tc0wl382uqkr0](https://nbn-resolving.org/urn:nbn:de:bsz:352-2-1tc0wl382uqkr0)

BOOK CHAPTERS & ARTICLES

- 2023 **“Event inventories: Estimating the temporality of landscape scenic resources from user-contributed geodata.”**, Conference Proceedings, ASLA Visual Stewardship Conference 2023, Argonne National Laboratory, Lemont, US [link](#)
- 2023 **Burghardt, D., Dunkel, A., Hauthal, E., Shirato, G., Andrienko, N., Andrienko, G., Hartmann, M., & Purves, R. (in press).** *Extraction and Visually Driven Analysis of VGI for Understanding People's Behavior in Relation to Multi-Faceted Context*. Book Chapter, Springer, 241-270.
- 2021 **Dunkel, A., Leukefeld, T. (2021).** *Tag-Maps: landschaftliche Wahrnehmung in sozialen Netzwerken am Beispiel der Planungsregion Leipzig-West Sachsen*. Kurzbroschüre: stadtlandnavi.de
- 2021 **Hecht, R., Brzoska, P., Burghardt, D., Cakir, S., & Dunkel, A., ... (2021).** *Informationen und Navigation zu urbanen Grünflächen in Städten Abschlussbericht und Handbuch zum mFUND-Projekt: MeinGrün*. November. Dresden: IÖR, 2021, S.126. [URL](#)
- 2020 **Dunkel, A. (2020).** *Tag Maps in der Landschaftsplanung*. In: Handbuch Methoden Visueller Kommunikation in der Räumlichen Planung, Springer, 127-166, DOI: [10.1007/978-3-658-29862-3_8](https://doi.org/10.1007/978-3-658-29862-3_8)
- 2016 **Schmidt, C., Dunkel, A. (2016).** *Den Landschaftswandel gestalten! Entwicklung und Gestaltung der Kulturlandschaften Baden-Württembergs am Beispiel der Region Ostwürttemberg*. LUBW Landesanstalt für Umwelt, Messungen und Naturschutz Baden-Württemberg
- 2016 **Dunkel, A. (2016).** *Assessing the perceived environment through crowdsourced spatial photo content for application to the fields of landscape and urban planning*. Dissertation. DOI: nbn-resolving.org/urn:nbn:de:bsz:14-qucosa-207927
- 2015 **Schmidt, C., Dunkel, A., Hanke, R., Lachor, M., Seidler, K., Böttner, S., Gruhl, E. (2015).** *Kulturlandschaftsprojekt Mittelsachsen*. Sachsen, Dresden, 651 p.
- 2014 **Schmidt, C., Dunkel, A., Hofmann, M., Schneeberger, E. (2014).** *Den Landschaftswandel gestalten! Potentiale der Landschafts- und Raumplanung zur modellhaften Entwicklung und Gestaltung von Kulturlandschaften vor dem Hintergrund aktueller Transformationsprozesse*, Band 2: Regionalplanung und Landschaftsrahmenplanung, Bonn, Bundesamt für Naturschutz (BfN)
- 2014 **Schmidt, C., Dunkel, A., Hofmann, M., Schneeberger, E. (2014).** *Den Landschaftswandel gestalten! Potentiale der Landschafts- und Raumplanung zur modellhaften Entwicklung und Gestaltung von Kulturlandschaften vor dem Hintergrund aktueller Transformationsprozesse*, Band 1: Bundesweite Übersichten, Bonn, Bundesamt für Naturschutz (BfN)
- 2014 **Schmidt, C., Dunkel, A., Lein, M., Seiche, K. (2014).** *Strategische Umweltprüfung für den Flächennutzungsplan 2015 der Stadt Dresden*, 97 p.

BOOK CHAPTERS & ARTICLES

- 2013 **Schmidt, C., Dunkel, A., Hofmann, M., Lein, M. (2013).** *Strategische Umweltprüfung für den Landesentwicklungsplan 2013 Sachsen (LEP)*, 90 p., Sachsen.
- 2010 **Dunkel, A. (2010).** *Die Kulturlandschaft der Stadt Bad Schandau und ihrer Umgebung - ein Entwicklungskonzept*. Diploma Thesis, Landscape & Environmental Planning, TU-Dresden.

INVITED LECTURES, PRESENTATIONS, SYMPOSIA

- 2023 **“Estimating the temporality of landscape scenic resources from user-contributed geodata.”**, presentation (in-person), ASLA Visual Stewardship Conference 2023, Argonne National Laboratory, Lemont, USA [link](#)
- 2023 **“Visuelle Analyse von Geosocial Media Daten mit Jupyter Lab”**, CartoHack #16, Deutsche Gesellschaft für Kartographie e.V. [link](#)
- 2022 **VGI and Smart Cities Workshop & Poster (EVA-VGI) at Smart Country Convention (SCCON)**, Berlin [link](#)
- 2022 **“Nutzung von Social Media für die partizipative, grüne Stadtentwicklung”** (Online), Stadt Chemnitz; with B. Hoffmann (Amt für Informationsverarbeitung); C. Beschow, S. Böhme (Stadtplanungsamt); F. Etterer (Grünflächenamt) [link](#)
- 2021 **“Decoding the perceived City”**, Trial (test) lecture as part of the interview process for tenure track at UVA, Virginia, for a joint appointment at the School of Engineering and Applied Science, the School of Data Science and the School of Architecture. [link](#)
- 2020 **“HyperLogLog for Real Time LBSM Visual Analytics. A solution to the count distinct problem and privacy?”**, presentation (Online), EvaVGI II & Remote Sensing Image Analysis, TU Berlin [link](#)
- 2019 **“Visualizing the perceived City from crowdsourced Social Media data”**, Seminar “Decoding the City”, Faculty of Architecture, TU Dresden [link](#)
- 2019 **“Social Media Visualizations and Monitoring”**, presentation, Berchtesgaden National Park, workshop on park issues from mass invasion through the global spread of information on Social Media [link](#)
- 2019 **“thepLink-docker: A spatial interface to support city planning and local community discourse”**, Community Workshop, Waynesboro, USA [link](#)
- 2019 **DFG-Outreach “Research in Germany”**, AGU Fall Meeting, San Francisco, USA
- 2018 **“Visualizing peoples’ perceptual responses to space through crowdsourced spatial photo content”**, presentation and workshop, Data Dialogue 9, School of Architecture, University of Virginia, USA
- 2018 **“Taking into account the public’s view in landscape and urban planning: Big Data Potentials and Challenges”**, Workshop on visual communication methods in Regional Planning, Kassel
- 2017 **“Identifying Perceived Characteristics and the Collective Attribution of Values and Meaning from Social Media”**, presentation, Nexus Conference (Dresden)
- 2017 **“Visualizing VGI for application to the fields of landscape and urban planning”**, VGIscience Summer School (TU Dresden)
- 2015 **„On Empathy and Data _crowdsourced mental maps“** presentation, with Dr. M. El Khafif (DATA-lab), Toronto, Canada
- 2012 **„Open Source Cartography_ Mapping Patterns of Crowd Sourced Data“**, Guest Lecture, Panel Discussion and Exhibition, Department of Architecture URBANlab, California College of the Arts (CCA), San Francisco, USA
- 2011 **„Network-Landscapes: New control options for Landscape Architecture and Environmental Planning through the use of internet-based, international, locative media data streams“**, Guest Lecture, Fall 2011 Colloquium, Department of Landscape Architecture & Environmental Planning, UC Berkeley, USA

05 TEACHING

LECTURES AND WORKSHOPS

2022–2024	Mobile Cartography Lectures “Analysis and Visualization of Geo-Social Media” link and “Python data science 101” link
2022–2024	Mobile Cartography Workshops , supervised cartographic workshops (4 DS) Geo-Pool & Online (Jupyter Hub), evaluation of submitted results. Workshop results WS 2022 link
2021–2022	Jupyter Lab Python Spatial Data Science Workshop Series , together with Madalina Gugulica 1. Introduction to Social Media data, Jupyter and python spatial visualizations link 2. Introduction to privacy issues with Social Media data and possible solutions for cartographers link 3. Specific visualization techniques example: Tag Maps clustering link 4. Specific data analysis: Topic Classification link
2018–2021	Development of Custom Visualization techniques for Big Data. Lecture and Workshop Series link
2018	Workshop on “Tag & Emoji Maps” , Leibniz-Institut für Länderkunde (IfL), Leipzig, Germany
2015	Student Workshop on “Tag Maps” , University of Waterloo, School of Architecture and Workshop at University of Toronto, Canada
2007–2008	Collaboration project „Community of Practice on E-Learning“ (CooPEL), TU Dresden
2005–2008	Computer Courses, Introduction to Spatial Modeling and GIS , Landscape Architecture, TU Dresden
2007–2019	TU Dresden University Sports Centre, teaching beginner and advanced courses

THESIS SUPERVISION

2024–present	Second Advisor for PhD thesis William Ying, Doctoral Candidate at the Leibniz Institute of Ecological Urban and Regional Development (IOER)
2019–2023	Second Advisor for PhD thesis Marc Löchner, “Privacy-aware social media data processing”
2023	Master thesis Malte Stillein , “Generative AI for map making using Stable Diffusion and geosocial data”, Faculty of Environmental Sciences, Institute of Cartography, TU Dresden.
2021	Master thesis Dominik Weckmüller , “Good Governance goes Smart - Social Media data supporting Evidence-Based Municipal Policies”, Department of Geography, University of Bonn.
2021	Master thesis Junru Lin , “Extraction of places of interest from Volunteered Geographic Information”, Faculty of Environmental Sciences, Institute of Cartography, TU Dresden.
2020	Master thesis Jack Stephan , “Privacy Aware Analysis of Spatial Social Media Data”, Faculty of Environmental Sciences, Institute of Cartography, TU Dresden.
2020	Diploma thesis Claudia Tautenhahn , “Mass Invasion: Social Media impact on landscape perception and selected vantage points in Europe” (transl.), Institute of Landscape Architecture, TU Dresden.
2019	Master thesis Jan Kolditz , “User-generated geographic content supporting geo-visual analysis of tourist behavior” (transl.), Faculty of Environmental Sciences, Institute of Cartography, TU Dresden.

REVIEW AND COMMITTEE WORK

2017–present	Peer review for Journals Landscape and Urban Planning (Elsevier), Information Processing and Management, PLoS one, Information Visualization (SAGE), Gis.science - Die Zeitschrift für Geoinformatik, Journal of Spatial Information Science (JOSIS), Ecosystem Services (Elsevier), Applied Sciences (MDPI), see Orcid 0000-0003-1157-7967
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REVIEW AND COMMITTEE WORK

2015	External committee member , Master thesis, Daniel Malka, “open territory”, University of Waterloo, School of Architecture, Cambridge, Ontario, Canada
2011	Review panel , LA203 Studio Presentations, Department of Landscape Architecture and Environmental Planning, UC Berkeley, USA

06 PROJECTS, GRANTS AND RECOGNITION

PROJECT APPLICATION/ GRANTS

2020–2023	Volunteered Geographic Information - Interpretation, Visualisation and Social Computing [EVA VGI II]: Geovisual analysis of VGI for understanding people’s behaviour in relation to multi-faceted context , German Research Foundation Priority Programme (SPP 1894), with Burghardt, D., and Hauthal, E. (TUD)	€264,355
2019	Mapping The Geospatial Image Of Waynesboro (MainStreet21 RCN NSF seed grant), with Huang, G., El Khafif, M., Juday, L. (UVA)	\$6,400
2019	Green City – Information on and Navigation to urban green spaces – Data collection, Service infrastructure for App „meinGrün” (transl.), with Burghardt, D. (TUD) and the Leibniz Institute of Ecological Urban and Regional Development (Dresden)	€163,553

Declined Grants:

2023	“Digitaler Dialog zu lokaler Klimawandelanpassung für mehr öffentliches Engagement (#Klimadialog)”, BMBF Funding, “Wissenschaftskommunikation”, Lead: Universität Kassel (Umweltmeteorologie), Partners: TU-Dresden (Kartographie), Stadt Kassel (Umweltplanung), Universität Kassel (Interdisziplinäre Arbeitsgruppe “Climate Thinking”)	€751,079
2023	“Privacy-compliant geosocial data stream transformation”, 2nd call for NF-DI4Earth Pilots (Lead, Compilation)	€71,410
2022	“#4K: Kreative Kommunikation für Klima & Kultur”, BMBF Funding “Die digitale Kommune: Interaktive, partizipative und datengetriebene Planungsprozesse unterstützen” (Lead Coordination, Compilation), Partners: Universität Kassel (Umweltmeteorologie), Stadt Kassel (Umweltplanung), Zebralog GmbH, YOUSE GmbH, PSY:PLAN GbR	€1,470,556
2022	“iTRANSMIT: Interaktive themen- und raumbezogene, anonyme Nutzerstatistiken sozialer Medien als Informationsgrundlage für Tagesgastmonitoring”; Associated Partners (LOI): Bonn, Amt für Wirtschaftsförderung; Chemnitz, Dezernat 6, Stadtentwicklung und Bau	€97,727
2021	We Are Martinsville [WAM]: Leveraging Mobile Gaming to Increase Community Engagement and Improve Health Outcomes (NSF SCC-IRG Track 1), Senior personnel, with El Khafif, M., Wibberly, K., Stokes, B., Jain, S., and Nguyen, N. (UVA)	\$113,455

Project Work (PhD-phase):

2016	F+E “Den Landschaftswandel gestalten”, Entwicklung und Gestaltung der Kulturlandschaften Baden-Württembergs am Beispiel der Region Ostwürttemberg. GIS-Verarbeitung, Aggregation d. EEG-Stammdaten (BW), Social-Media Daten
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2012–2014	F+E “Den Landschaftswandel gestalten”, Potentiale der Landschafts- und Raumplanung zur modellhaften Entwicklung und Gestaltung von Kulturlandschaften vor dem Hintergrund aktueller Transformationsprozesse (UFOPLAN 2012)
2012	Strategische Umweltprüfung (SUP) Landesentwicklungsplan 2012 Sachsen, GIS-Verarbeitung, Text, Regionalisierung WETTREG
2014	Kulturlandschaftsprojekt Mittelsachsen, GIS-Verarbeitung, Bericht
2010–2013, 2016	Strategische Umweltprüfung (SUP) Flächennutzungsplan Stadt Dresden, GIS-Verarbeitung, Biotopkartierung und Prüfung geplanter Bauflächen, Bericht

FELLOWSHIPS AND AWARDS

2016	Nominated for Kurt-Beyer-Preis (€5000,00), TU Dresden
2016	Research Fellowship , TU Dresden Graduate Academy, €4404,00
2015	2015 Weddle Prize , Best Paper of the Year Award for “ <i>Visualizing the perceived environment using crowd-sourced photo geodata</i> ” in Landscape and Urban Planning (Vol. 142)
2015	Editors’ Choice for “ <i>Visualizing the perceived environment using crowdsourced photo geodata</i> ” in Landscape and Urban Planning (Vol. 142)
2013	State of Saxony Fellowship , €1790,00
2012	Travel Award , TU Dresden, for 2012 ASLA National Conference, Phoenix, USA
2012	Award in Research , American Society of Landscape Architects (ASLA), Student Awards 2012

FREELANCE & CONTRACT WORK

2019	Assessment of collective values, landscape identity and information spread for cultural landscape development in Western Saxony (transl.), Contribution for Stadt-Land-Plus: “Sustainable Resource Management for Cultural Landscapes with Strategic Navigation”, Prof. Dr. Catrin Schmidt, €5000,00
2019	Campus Masterplan TU Bergakademie Freiberg, Social Media Site Analysis Contribution & Presentation, Freiberg, Germany
2018	PSY:PLAN GbR, Institut für Architektur- und Umweltpsychologie, Datenanalyse Nationalpark Berchtesgaden
2015	Highline Maps Book Entry, The Highline Book, Diller Scofidio + Renfro & Field Operations (New York, 2015)
2015	Oakland Tag Maps for „Choosing Here“, Performance/Art Exhibition on Homing
2015	Presentation graphics for Symposium <i>After Empirical Urbanism</i> , on „The Bias of Data“, with Mona El Khafif, DATAlab UW, University of Toronto, Faculty of Architecture, Landscape, and Design (2015)
2012	San Francisco Fort Mason Design Competition, Contributory Site Photo Data Analysis for Team WEST 8 winning Entry (2012)
2007–present	Landscape Photographer for Getty Images; treesonwhite.com

MAGAZINE/ MEDIA COVERAGE

- 2023 **Visualizing opinions, emotions and perceptions in social media data - while preserving user privacy.**
Film (JOUL), Dunkel, A., Hauthal, E., Löchner, M. [link](#)
- 2013 **What Flickr Can Teach Us About the Way We Photograph Cities.**
Interview, The Atlantic Cities [link](#)
- 2013 **The View From The Crowds.**
Interview, Landscape Architecture Magazine [link](#)

07 OPEN SOURCE AND TECHNOLOGY

PROJECTS, PACKAGES AND FRAMEWORKS

- [Carto-Lab Docker](#) **Open source cartographic visualizations and spatial data pipelines** based on a Docker container that runs a JupyterLab-Server with a collection of cartographic packages.
- [theplink.org](#) **A Docker-based spatial discourse ecosystem to support community engagement and public participation for landscape and urban planning projects.** Progressive Web App (PWA) prototype for federated, decentralized community engagement.
- [lbsn.vgiscience.org](#) **A common language independent, privacy-aware and cross-network social-media data scheme,** standardized conceptual data model and implementation for analyzing, comparing and relating information of different LBSN in visual analytics research. Together with Marc Löchner.
- [app.meingruen.org](#) **Contribution: Vector & Raster Tile Maps Service for Germany,** processed on a weekly basis from OpenStreetMap data, through Gitlab Continuous Integration and Continuous Deployment (Docker Swarm); together with Mathias Gröbe, TU Dresden.
- [pypi.org/project/tagmaps/](#) **Tag Maps Python package** for bottom-up spatial clustering and visualization of subjective attribution of values and meaning from Social Media.
- [pypi.org/project/lbsntransform/](#) **LBSNTransform Python package** for quantitative, GDPR conform and privacy-aware visual analytics of Location Based Social Network (LBSN) data with HyperLogLog (HLL).
- [maps.alexanderdunkel.com/](#) **Spatio-temporal tag cloud map browser,** visualizing subjective attribution of meaning and values for sample regions worldwide, based on public geo-social media data.

A visual counterpart of this CV can be found at [alexanderdunkel.com/time](#)

I try to do transparent, open, and reproducible science, as much as possible. Most of what I do or create is shared at [ad.vgiscience.org/links](#). I also occasionally tweet [@AlexanderDunkel](#) or toot [@alex@himsself.alexanderdunkel.com](#). My personal endeavors for self-hosting are documented at [du.nkel.dev](#).

My git repositories can be found at [github.com/sieboldianus](#), [gitlab.vgiscience.de/ad](#), and [gitlab.hrz.tu-chemnitz.de/s7398234--tu-dresden.de](#).