



ALEXANDER DUNKEL

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01 EDUCATION

- 2024–present **Technische Universität Dresden**, Germany
Habilitation (process application accepted by the Environmental Sciences Faculty Council)
- 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

- Leibniz Institute of Ecological Urban and Regional Development**, Dresden, Germany
2024–present Senior Scientist (tenure track), Transformative Capacities (FBT) & Research Data Centre (IOER-RDC)

- Technische Universität Dresden**, Germany,
Cartographic Communication, Faculty of Environmental Sciences
2017–2023 Research Associate

- University of California, Berkeley**, USA
Department of Landscape Architecture and Environmental Planning, College of Environmental Design
2011–2012 International Research Scholar

- Technische Universität Dresden**, Germany
Department of Landscape Architecture & Environmental Planning, Faculty of Architecture
2010–2017 Research Associate
2004–2008 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. (2024).** *Assessing Perceived Landscape Change from Opportunistic Spatiotemporal Occurrence Data*. Special issue: Exploring Multisensory Landscapes: 2023 Visual Resource Stewardship Conference, Land 2024, 13, 1091. [10.3390/land13071091](https://doi.org/10.3390/land13071091)
- 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., Kreuzarek, N., Lautenbach, S., Ludwig, C., Lümke, D., Meinel, G., Schorch, 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)

ARTICLES & CONFERENCE PAPERS (co-authored)

- 2021 **Hauthal, E., Dunkel, A., & Burghardt, D. (2021).** *Emojis as Contextual Indicators 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)
- 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-Westachsen*. 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)

BOOK CHAPTERS & ARTICLES

- 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.
- 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 **“thelink-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

INVITED LECTURES, PRESENTATIONS, SYMPOSIA

- 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** Dominik Weckmüller, Doctoral Candidate at the Institute of Cartography, TU Dresden.
- 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.

THESIS SUPERVISION

- 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](https://orcid.org/0000-0003-1157-7967)
- 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 NFDI4Earth 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
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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
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

2024	Featured Paper , for “ <i>Assessing Perceived Landscape Change from Opportunistic Spatiotemporal Occurrence Data</i> ” in LAND 13(7)
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 *After Empirical Urbanism*, 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.

[casereports.fdz.ioer.info/](#)

Case reporting for Real World Laboratories, based on Grist nocode-db and Keycloak User Identity management.

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 toot [@alex@himself.alexanderdunkel.com](#). My personal efforts at 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](#).