

# Dr. ANDREA DE ANGELIS

Senior Researcher (Ambizione grant holder), University of Zurich

Associate editor at [Frontiers in Political Science](#) and [Politics and Governance](#)

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## CONTACT INFORMATION

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<i>email</i>	<a href="mailto:deangelis@ipz.uzh.ch">deangelis@ipz.uzh.ch</a>
<i>website</i>	<a href="#">UZH</a> · <a href="#">Personal</a>

## RESEARCH INTERESTS

Political Behavior and Communication, Political Psychology, Media, Computational Social Science, Quantitative Research Methods.

## EDUCATION

	<i>May 2021</i>	<b>HABILITATION FOR ASSOCIATE PROFESSOR</b> Italian National Scientific Habilitation (Postdoctoral Lecture Qualification) for Associate Professor in Political Science.
<i>EUI</i>	<i>June 2017</i>	<b>Ph.D. EUROPEAN UNIVERSITY INSTITUTE</b> Doctor of Political and Social Sciences. Thesis title: "Bridging Troubled Water: Electoral Availability in European Party Systems in the Aftermath of the Great Recession (2009-2014). An Application of Bayesian Ideal Point Estimation". Examining board: Prof. Alexander H. TRECHSEL (European University Institute, supervisor), Prof. Hanspeter Kriesi (European University Institute), Prof. Russell J. Dalton (University of California), Prof. David Farrell (University College Dublin)
<i>EUI</i>	<i>July 2013</i>	<b>M.Res. EUROPEAN UNIVERSITY INSTITUTE</b> Master of Research in Sociology and Political Science. Prof. Alexander H. TRECHSEL · European University Institute
<i>Siena Univ.</i>	<i>July 2012</i>	<b>M.Sc. UNIVERSITY OF SIENA</b> Master of Science in Comparative Politics. Prof. Paolo BELLUCCI · University of Siena
<i>Bocconi Univ.</i>	<i>March 2010</i>	<b>M.Sc. BOCCONI UNIVERSITY</b> Master of Science in Economics.
<i>Perugia Univ.</i>	<i>May 2007</i>	<b>B.Sc. UNIVERSITY OF PERUGIA</b> Laurea Triennale (eq. Bachelor of Science) in Economics.

## EMPLOYMENT HISTORY

- Sept 2022 – Present    Ambizione Fellow  
 Lucerne Univ.    Principal Investigator at the project “Political Misinformation in the Digital Age” funded by the Swiss National Science Foundation (Ambizione grant). Department of Political Science, University of Zurich.
- Dec 2018 – Aug 2022    Post-doctoral researcher and lecturer  
 Lucerne Univ.    Post-doctoral Researcher at the project “Media, Information Consumption and Politics” funded by the Swiss National Science Foundation. Principal Investigator and advisor: Prof. Alexander H. Trechsel.
- Jan 2018 – June 2019    Post-doctoral researcher  
 Lucerne Univ.    Post-doctoral Researcher at the project “Personalization of Politics between Television and the Internet”, Department of Political Science, University of Lucerne. Advisor: Prof. Diego Garzia.
- Sept 2016 – Nov 2018    Senior Researcher and Lecturer (Oberassistent)  
 Lucerne Univ.    Department of Political Science, University of Lucerne. Advisor: Prof. Alexander H. Trechsel.

## MONOGRAPHS AND EDITED VOLUMES

- De Angelis, A., Farhart, C. E., Merkley, E., Stecula, D. A., eds. (2022). *Political Misinformation in the Digital Age During a Pandemic: Partisanship, Propaganda, and Democratic Decision-Making*. Lausanne: Frontiers Media SA. doi: [10.3389/978-2-88976-454-9](https://doi.org/10.3389/978-2-88976-454-9). [OA link]
- Garzia, D., da Silva, F., and De Angelis, A. (2021). *Leaders without Partisans: Dealignment, media Change, and the Personalization of Politics*. Colchester: Rowman & Littlefield/ECPR Press.
- De Angelis, A. (2017). *Bridging Troubled Water: Electoral Availability in European Party Systems in the Aftermath of the Great Recession (2009-2014)*. European University Institute Dissertation. doi: [10.2870/711165](https://doi.org/10.2870/711165).

## PUBLICATIONS

- De Angelis, A., Farhart, C. E., Merkley, E., Stecula, D. A. (2022). *Editorial: Political Misinformation in the Digital Age During a Pandemic: Partisanship, Propaganda, and Democratic Decision-Making*. *Frontiers in Political Science*, 01 June 2022. [OA link]
- Silva, F., Garzia, D., and De Angelis, A. (2021). *From Party to Leader Mobilization? The Personalization of Voter Turnout*. *Party Politics*, Vol. 27(2): 220-233. [Published version; a post featured on Democratic Audit]
- Garzia, D., da Silva, F., and De Angelis, A (2021). *Partisan dealignment and the personalisation of politics in West European parliamentary democracies, 1961-2018*. *West European Politics*, forthcoming. [Published version, a post featured on the LSE blog]
- De Angelis, A. (2020). *How Voters Distort their Perceptions and Why this Matters*. In: Suhay, E., Grofman, B., and Trechsel, A., *The Oxford Handbook of Electoral Persuasion*, pp. 946-976. [Published version; pre-print]
- Michel, E., Garzia, D., da Silva, F. and De Angelis, A. (2020). *Leader Effects and Voting for the Populist Radical Right in Western Europe*. *Swiss Political Science Review*, Vol. 26(3): 273-295. [Published version; pre-print]
- De Angelis, A., Colombo, C., and Morisi, D. (2020). *Taking Cues from the Government: Heuristic versus Systematic Processing in a Constitutional Referendum*. *West European Politics*, Vol. 43(4): 845-868. [Published version, pre-print, a post featured on the LSE blog]
- Garzia, D., da Silva, F., and De Angelis, A (2020). *Image that Matters: News Media Consumption and*

*Party Leader Effects on Voting Behavior*. The International Journal of Press/Politics, Vol. 25(2): 238 - 259. [Published version]

Morisi, D., Colombo, C. and De Angelis, A. (2019). *Who is afraid of a change? Ideological differences in support for the status quo in direct democracy*. Journal of Elections, Public Opinion and Parties, Vol. 31(3): 309-328. [Published version].

De Sio, L., De Angelis, A. and Emanuele, V. (2017). *Issue yield and party strategy in multi-party competition*. Comparative Political Studies, Vol. 51(9): 1208-1238. [Published version; pre-print]

Garzia, D., Trechsel, A.H., and De Angelis, A. (2017). *Voting Advice Applications and Electoral Participation: A Multi-Method Study*. Political Communication, Vol. 34(3): 424-443. [Published version; pre-print]

Garzia, D. and De Angelis, A. (2016). *Partisanship, Leaders Evaluations and the Vote: Disentangling the new Iron Triangle in Electoral Research*. Comparative European Politics, Vol. 14 (5): 604-625. [Published version]

Garzia, D., Trechsel, A.H., De Sio, L., and De Angelis, A. (2015). *euandi: Project Description and Datasets Documentation*. Robert Schuman Centre for Advanced Studies (RSCAS) Research Paper Series. Research Paper No. RSCAS 2015/01. Link: [http://papers.ssrn.com/sol3/papers.cfm?abstract\\_id=2553919](http://papers.ssrn.com/sol3/papers.cfm?abstract_id=2553919) [23 February 2016]

Garzia, D., De Angelis, A., and Pianzola, J. (2014). *The Impact of Voting Advice Applications on Electoral Participation*. In: Garzia, D. and Marschall, S. (Eds.), *Matching Voters with Parties and Candidates: Voting Advice Applications in a Comparative Perspective*. Colchester (UK): ECPR Press.

De Angelis, A. and Garzia, D. (2013). *Individual level dynamics of PTV change across the electoral cycle*. Electoral Studies, Vol. 32 (4): 900 - 904. [Published version]

Bellucci, P., and De Angelis, A. (2013). *Government Approval in Italy: Political Cycle, Economic Expectations and TV Coverage*. Electoral Studies, Vol. 32 (3): 452 - 459. [Published version]

#### GRANTS AND DISTINCTIONS

Ambizione	Sept 2022 - Aug 2026	SWISS NATIONAL SCIENCE FOUNDATION AMBIZIONE GRANT
	Swiss National Science Foundation, Ambizione Grant. Project: Political Misinformation in the Digital Age (PZooP1-201817). CHF. 636,417.	
SPARK	Nov 2020 - Nov 2021	SWISS NATIONAL SCIENCE FOUNDATION SPARK GRANT
	Swiss National Science Foundation, SPARK Grant. Project: Algorithmic Newsfeeds and Democracy (CRSK-1-106503). CHF. 96,200. Co-applicants: Prof. Alexander H. Trechsel and Dr. Alessandro Vecchiato.	
Oxford Univ.	Jan-Apr 2016	VISITING SCHOLAR FELLOWSHIP, OXFORD UNIVERSITY
	Visiting Scholar at Nuffield College, Oxford University.	
NYU	Sep-Dec 2015	FULBRIGHT-SCHUMAN GRANT, NYU
	Fulbright-Schuman award jointly financed by the Directorate-General for Education and Culture of the European Commission and the United States Department of State (€ 10,000). Social Media and Political Participation Lab, New York University, Wilf Family Department of Politics.	
Eurolab	July 2015	Visiting Researcher — GESIS - EUROLAB
	Visiting researcher at the European Data Laboratory for Comparative Social Research, GESIS - Leibniz Institute for the Social Sciences in Cologne (Germany). Details <a href="#">here</a> . Reference: Prof. Dr. Ingwill C. MOCHMANN · GESIS - Eurolab	

## ACADEMIC EXPERIENCE AND INSTITUTIONAL RESPONSIBILITIES

<i>Frontiers</i>	<i>Jan 2020 – Present</i>	Associate Editor for Frontiers In Political Science
		Associate Editor for Frontiers In Political Science, Gold Open-Access peer-reviewed scientific journal.
<i>Lucerne Univ.</i>	<i>Sept 2019 – Present</i>	Initiator of the R User group in Lucerne.
		Initiator of the local R User group in Lucerne, in collaboration with the Graduate School of Lucerne.
<i>Lucerne Univ.</i>	<i>Sept 2018 – Present</i>	Co-Founder LUMACSS - Lucerne Master in Computational Social Science
		Co-Initiator of the <a href="#">Lucerne Master in Computational Social Science</a> (LUMACSS), in partnership with the Harvard's Berkman Klein Center for Internet and Society. Scientific advisor and design of the program structure.

## SUPERVISION OF JUNIOR RESEARCHERS

<i>Lucerne Univ.</i>	<i>Jan 2017 – Present</i>	Thesis supervision
		Main supervisor for four BA-level and nine MA-level theses on various themes in political communication, comparative politics, and political sociology.

## TEACHING EXPERIENCE

A running list of courses with syllabi and evaluations available [here](#).

<i>Lucerne Univ.</i>	<i>Spring 2021</i>	Research Design in Quantitative Perspective, Module II
		Lecturer, master seminar “Research Design in a Quantitative Perspective, Module II”. Advanced and design based inference, regression, experimental design, instrumental variables, difference-in-difference, regression discontinuity.
<i>Uni Milan</i>	<i>Jan 2021</i>	Data Access and Regulation
		MA-level course on “Data Access and regulation”. Ethics and regulation of digital data and web mining, mining data from the web in R, Reproducibility, Git and Github, HTML language, URLs, HTTP protocol (GET, POST), CSS and XPath selectors, JSON and XML, regexps, R programming, web-based REST APIs.
<i>Lucerne Univ.</i>	<i>Fall 2020</i>	Research Design in Quantitative Perspective
		Lecturer, master seminar “Research Design in a Quantitative Perspective”. Comparative, statistical, and experimental method, endogeneity, measurement error, and selection bias. The course includes applied sessions where students can familiarize with statistical methods using R.
<i>Lucerne Univ.</i>	<i>Spring 2020</i>	Replication seminar: Doing Research in Practice
		Lecturer, Master-level seminar “Replication Seminar: Doing Research in Practice”. The purpose of the seminar is to facilitate the task of students that are keen on developing an empirical project in their Master theses. This seminar is designed to fill the gap between the students final works and the classic methods seminars, while offering a service to the scientific community to contrast the replication crisis, by double-checking and re-testing published scientific evidence.
<i>Campus Lucerne</i>	<i>Feb 2020</i>	Introduction to R for Data Science
		PhD-level workshop “Introduction to R for Data Science”.
<i>Uni Milan</i>	<i>Jan 2020</i>	Data Access and Regulation
		MA-level course on “Data Access and regulation”. Ethics and regulation of digital data and web

mining, mining data from the web in R, Reproducibility, Git and Github, HTML language, URLs, HTTP protocol (GET, POST), CSS and XPath selectors, JSON and XML, regexps, R programming, web-based REST APIs.

### June 2019 Replicable Research and Reporting in R

Lucern Univ.

Instructor, PhD-level workshop “Replicable Research and Reporting in R”. Replication crisis and the importance of replicability in research. Structuring large research projects to achieve full replicability; reporting in R markdown; introduction to using Git and Github.

### May 2019 Advanced Regression Analysis in R

Lucern Univ.

Instructor, PhD-level workshop “Advanced Regression Analysis in R”. Main topics: Generalized Linear Model with linear and non-linear relations, using Monte Carlo simulations to predict arbitrary quantities of interest.

### Jan 2019 – May 2019 Replication Seminar: Doing Research in Practice

Lucerne Univ.

Lecturer, Master-level seminar “Replication Seminar: Doing Research in Practice”.

### Oct 2018 Introduction to R for Data Analysis

Luzern Hochschule

Instructor, Master-level workshop “Introduction to R for Data Analysis”. R workshop providing an introduction to the R programming language. Main topics: R operators, data types, functions, control structures, data manipulation (base R and dplyr), basic statistical analysis, elements of more advanced issues (generalized linear model, Bayesian hierarchical modeling, text mining, research replicability).

### Sept 2018 – Dec 2018 Research Design in a Quantitative Perspective

Lucerne Univ.

Lecturer, master seminar “Research Design in a Quantitative Perspective”.

### Sept – Dec 2018 Introduction to Political Sociology

Lucerne Univ.

Lecturer, master seminar “Introduction to Political Sociology”. This seminar focuses on the fundamental socio-economic conflicts affecting the development of political systems, encouraging students to reflect on the most salient factors of political change in order to foster their understanding of contemporary social and political divisions. A key concept in the seminar’s discussion is represented by social cleavages. Students are guided through the classic account of cleavage politics (Lipset and Rokkan 1967), in order to understand the fundamental social cleavages in industrial societies, before moving on to the more recent research on political change in post-industrial societies. The last part of the seminar digs into the erosion of the representative function of European party systems and the recent populist uprising.

### Apr 2018 R workshop

Graduate School of  
Lucerne (GSL)

Instructor, PhD workshop “Introduction to R for Data Analysis”. R workshop providing an introduction to the R programming language. Main topics: R operators, data types, functions, control structures, data manipulation (base R and dplyr), basic statistical analysis, elements of more advanced issues (generalized linear model, Bayesian hierarchical modeling, text mining, research replicability).

### Jan 2017 – May 2018 Replication Seminar

Lucerne Univ.

Lecturer, master “Replication Seminar”. The purpose of the seminar is to facilitate the task of students that are keen on developing an empirical project in their Master theses.

### Jan 2017 – May 2018 Comparing Media Systems

Lucerne Univ.

Lecturer, master seminar “Comparing Media Systems”. The purpose of the seminar is to understand the evolution of media systems in the Western world. The seminar traces the change of the media environment from the appearance of the Radio, to broadcast TV, to cable and satellite TV, to the Internet and the spreading of new media. Special attention is devoted to understanding the connections between the media and the formation of citizens’ opinions.

### Sept 2017 – Dec 2017 Research Design in a Quantitative Perspective

- Lucerne Univ.* Lecturer, master seminar “Research Design in a Quantitative Perspective” [co-instructor Prof. Alexander H. Trechsel]. In this seminar the students are guided through some of the most fundamental social science methods: the comparative, the statistical, and the experimental method.
- Sept 2017 – Dec 2017* Introduction to Political Sociology
- Lucerne Univ.* Lecturer, master seminar “Introduction to Political Sociology”.
- Jan 2017 – May 2017* Introduction to Political Communication Research
- Lucerne Univ.* Lecturer, master seminar “Introduction to Political Communication Research”. Students are introduced to Political Communication research by replicating in class a selection of recent papers. The substantive contribution of the proposed papers is reviewed in the light of replicated findings, empirical extensions and robustness tests using replication data.
- Sept 2015 – Jul 2016* STATA tutor — EUI
- EUI* STATA research software tutor of the European University Institute. Details [here](#).
- Oct 2014* Teaching training — EUI
- EUI* Teaching in higher education course offered by the European University Institute.

#### CONFERENCE PAPERS AND INVITED TALKS

- Lucerne 2022*
- May 2022* *Algorithms and Democracy*. Open lecture series, 3rd of May 2020, University of Lucerne.
- Neuchatel 2020*
- March 2020* *Computational Social Science: a tale of three revolutions*. Invited talk at the University of Neuchatel, part of the ‘Digital Skills Ateliers’ , 5th of March 2020, University of Neuchatel.
- ISPP 2019*
- July 2019* Three papers presented: *From group to leader-follower dynamics of electoral mobilization?: The decline of partisan attachments and the personalization of Voter Turnout*; *Reassessing charismatic leadership: Leader effects and voting for the populist radical right*; and *Tell me what I want to hear: disentangling the relationship between cognitive styles, media preferences, and attitudinal polarization*. 42nd Annual Conference of the International Society of Political Psychology, Lisbon, 12-15 July 2019.
- June 2019* *Tell me what I want to hear: disentangling the relationships between cognitive styles, media preferences and attitudinal polarization*. Paper presented at the 9th Annual Conference of the European Political Science Association, Belfast 20-22 June 2019.
- EPSA 2019*
- July 2019* *Tell me what I want to hear: disentangling the relationships between cognitive styles, media preferences and attitudinal polarization*. Paper presented at the 9th Annual Conference of the European Political Science Association, Belfast 20-22 June 2019.
- WPSA 2018*
- March 2018* *Making Up One’s Political Mind. Party Cues vs. Self-Persuasion in the Brexit Referendum*. Co-authored with Alexander H. Trechsel, Davide Morisi, Diego Garzia, and Kristjan Vassil. Paper presented at the 2018 WPSA conference, San Francisco CA, 30 March 2018.
- WPSA 2018*
- March 2018* *Making Up One’s Political Mind. Party Cues vs. Self-Persuasion in the Brexit Referendum*. Co-authored with Alexander H. Trechsel, Davide Morisi, Diego Garzia, and Kristjan Vassil. Paper presented at the 2018 WPSA conference, San Francisco CA, 30 March 2018.
- SPSA 2018*



- February 2018 *Panem et Circenses: Soft and Hard News TV Coverage in Berlusconi's Italy*. Paper presented at the 2018 Swiss Political Science Association conference, Geneva, 5-6 February 2018.
- SISP 2017
- September 2017 Panel organizer: *Words that Matter: Exploring the Pitfalls and Opportunity of Studying Political Text*. Panel organized for the 2017 Italian Political Science Association conference, Urbino, 14-16 September 2017.
- SISP 2017
- September 2017 *The Words that People Want: A Quantitative Text Analysis of the Five Stars Movement's Political Discourse*. Paper presented at the 2017 Italian Political Science Association conference, Urbino, 14-16 September 2017.
- EPSA 2017
- June 2017 *Bridging Troubled Water: Electoral Availability in European Party Systems in the Aftermath of the Great Recession (2009-2014). An Application of Bayesian Ideal Point Estimation*. Paper presented at the 2017 EPSA conference, Milan, 22-24 June 2017.
- POPE 2017
- Feb 2017 *Taking cues from the government? The effect of heuristic cues versus policy arguments in the Italian constitutional referendum*. With Celine Colombo (University of Zurich) and Davide Morisi (European University Institute), paper presented at the conference "Referendum costituzionale 2016. Elettori, partiti e media nella "Seconda Repubblica", organized by the standing group on Parties, Public Opinion and Elections (POPE) of the Italian Society of Political Science (SISP) and the Italian Society of Electoral Studies (SISE), Rome (La Sapienza University), 9-10 February 2017.
- SISP 2016
- Sept 2016 *A Test of Media Capture by Using Machine-Learning Techniques, Evidence from Italian Television News 2010-2014*. With Alessandro Vecchiato (New York University), paper presented at the 2016 Italian Society of Political Science, Milan, 15-16-17 September 2016.
- ECPR 2016
- Sept 2016 *Geographical variations of issue attitudes? Evidence from a geo-localized Voting Advice Application*. With Prof. Lorenzo De Sio (LUISS University), Professor Alexander Trechsel (Lucerne University), Dr. Diego Garzia (Lucerne University). Paper presented at the 2016 ECPR Conference, Prague 7-10 September 2016.
- MPSA 2016
- April 2016 *How Parties Strategically Select Issues According to Issue Yield: A Case Study Linking Survey and Twitter Data*. With Professor Lorenzo De Sio and Dr. Vincenzo Emanuele. Paper presented at the Midwest Political Science Association Conference (7-10 April 2016, Chicago).
- ECPR 2014
- Sept 2014 *Changing Media, Changing Voters: Investigating the Relationship between Media Fragmentation and Political Polarization in 26 European Elections (1989-2009)*. ECPR General Conference, Glasgow, 3 - 6 September 2014.
- ISPP 2014
- July 2014 *Economic Voting: Investigating Accountability or Partisan Rationalization?* Annual Meeting of the International Society of Political Psychology, Rome (Italy), 4 - 7 July 2014.
- EPSA 2013
- July 2013 *Media, Economics, and the Vote Function in Italy (2011-2013)*. Paper co-authored with Paolo Bellucci, 3<sup>rd</sup> Annual Conference of the European Political Science Association, Barcelona, 20-22 June 2013.

## PROFESSIONAL SERVICE ACTIVITIES

*Associate editor:* Frontiers in Political Science, Politics and Governance.

*Peer reviewer for academic journals:* American Journal of Political Science, Journal of Politics, Political Analysis, Party Politics, West European Politics, Swiss Political Science Review, Electoral Studies, Policy and Internet, Journal of Elections, Public Opinion and Parties, Contemporary Italian Politics.

*Section chair:* 2016 Graduate Student Conference, University of Tartu, Section in Comparative Politics titled “Stress testing Europe: challenges and outcomes of the economic, political, and humanitarian crisis”.

*Organizer EUI workshop on media effects.* 6-7 June 2016, details [here](#).

*Convenor EUI Political Economy working group.* Academic year 2013-2014.

## CURRENT RESEARCH

*Panem et Circenses: Soft and Hard News TV Coverage in Berlusconi's Italy.* With Alessandro Vecchiato (Stanford University). Paper under review at the American Journal of Political Science.

*Tell Me What I Want to Hear: Disentangling the relationship between cognitive styles, media preferences, and attitudinal polarization.* With Alexander H. Trechsel. Working paper.

*Making Up One's Political Mind. Party Cues vs. Self-Persuasion in the Brexit Referendum.* With Alexander H. Trechsel, Davide Morisi. Working paper.

## SHORT-TERM COLLABORATIONS AND INTERNATIONAL VISITING EXPERIENCES

Oxford Univ.	Jan-Mar 2016	Junior Visiting Scholar — NUFFIELD COLLEGE
		Junior Visiting Scholar at Nuffield College, University of Oxford. Advisor: Prof. Raymond Duch.
Societly	Dec 2015 – Jan 2016	Research Assistant — SOCIETLY
		Research assistant for Societly, the Voting Advice Application for the 2016 U.S. Democratic and Republican primaries <a href="#">Societly</a> .
GESIS	Jun-July 2015	Visiting Researcher — GESIS
		Eurolab, Leibniz Intitute for the Social Science, Cologne, Germany.
EUI	Nov 2013 – Jun 2014	Italy Team Leader — <b>euandi</b> 2014
		Italian team leader and media referent for <b>euandi</b> , the Voting Advice and community building Application for the 2014 European Parliament elections. Project details <a href="#">here</a> . Reference: Prof. Alexander H. TRECHSEL · EUI.
ITANES	Jan - Feb 2013	Research Assistant — VOTE MATCH 2013
		Country expert for the 2013 Italian general elections Voting Advice Application Vote Match, in collaboration with the Italian National Election Studies Association (ITANES). Reference: Prof. Paolo BELLUCCI · ITANES.

## LANGUAGE SKILLS

Italian	Native speaker
English	Proficient user: reading (C1), writing (C1), speaking (C1)



*Spanish*                      Proficient user: reading (C1), writing (C1), speaking (C1)

*French*                      Basic user:            reading (B1), writing (A2), speaking (A2)

#### PROGRAMMING SKILLS

*Proficient*                      R, STATA, JAGS, GIT, L<sup>A</sup>T<sub>E</sub>X, MARKDOWN

*Used in the past*                      PYTHON, STAN, MATLAB

#### GENERAL INTERESTS

Scouting · bicycle travelling · surfing · skiing.

September 29, 2022