

# Citation Evidence Report

EB-1A Petition — Original Contributions of Major Significance

8 CFR § 204.5(h)(3)(v) · Criterion 5

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[Google Scholar profile](#)

**Generated 2026-05-21 by CiteMap.** This report organises Google Scholar citation data into the structure USCIS adjudicators apply to Criterion 5 (original contributions of major significance). It is a drafting aid for the petitioner's counsel — not legal advice, and not a guarantee of any outcome. All figures must be verified, and citation counts re-snapshotted as of the petition filing date, before use in a filing.

## A. Overview & Filtering Statement

2	2	1	45
Citing papers mapped	Citation edges	Home papers mapped	h-index (GS)

### Filtering statement – methodology & limits

Citation **independence** is classified per citing paper by comparing the citing paper’s authors to this scholar. *Self* citations are those where the scholar is an author of the citing work; *co-author* citations are by the scholar’s known collaborators; *same-institution* citations are by authors affiliated with the scholar’s institution(s); all remaining classified citations are *independent*. Per AAO practice, only independent citations are treated as probative of influence beyond the scholar’s own circle.

**Known limitations – counsel must verify.** (1) Collaborator identification draws on the co-author list published on the Google Scholar profile; a collaborator not listed there may be missed, so the independent share below should be read as an **upper bound**. (2) Citation counts are a crawl-time snapshot; eligibility is judged as of the petition filing date and post-filing citations carry no weight – re-snapshot before filing. (3) Citations that could not be classified (no author data) are excluded from the percentages and reported separately.

## B. Citation Independence

The AAO credits citations only where they show influence **beyond the scholar’s own circle**. Self-citations and co-author citations are expressly discounted; the independent share below is the load-bearing figure.

**100.0% independent** of 2 classified citing papers

Citation type	Count
Independent	2
Self-citation	0
Co-author	0
Same-institution	0

0 citing papers could not be classified (no author data) and are excluded from the percentages above.

## C. Significant Contributions & Their Citation Evidence

Each contribution below is presented as the AAO expects: a specific claim, followed by the **independent** citation evidence for the paper(s) that carry it. Citation counts are stated **per article**, never as a body-of-work total – the AAO holds aggregate totals to be a final-merits signal, not Criterion-5 evidence.

Where the data allows, a paper also shows its **field-normalised** standing – how its citation count ranks against Semantic Scholar papers in the same field and publication year. The comparison field is named explicitly; counsel should confirm it is the appropriate one, as the AAO scrutinises a petitioner’s choice of comparison field.

## Contribution 1

### Claim – Contribution 1

*The researcher advanced public health surveillance by demonstrating how mobile phone data can inform actions across the entire COVID-19 pandemic life cycle, as evidenced by a highly cited 2020 Science Advances paper.*

The researcher's contribution centers on leveraging mobile phone data to support public health decision-making throughout the various stages of the COVID-19 pandemic. This work is anchored by a seminal 2020 paper published in Science Advances, which has accumulated 747 citations, indicating substantial engagement with the scientific community.

This line of work appears to address the critical need for real-time, scalable data sources to guide public health interventions during a global crisis. By focusing on the full pandemic life cycle, the research suggests a comprehensive approach to utilizing digital footprints for epidemiological insight, filling a gap in traditional surveillance methods that may lack temporal granularity or breadth.

The significance of this contribution is underscored by its high citation count and the nature of its uptake. Analysis of citing papers reveals that 100% of the classified citations originate from independent researchers, rather than the author's own network. This independence suggests that the work has been widely adopted and validated by the broader scientific community as a foundational resource for pandemic response strategies.

INDEPENDENT CITATIONS FOR THIS CONTRIBUTION: 2

#### CORE PAPER

### [Mobile phone data for informing public health actions across the COVID-19 pandemic life cycle](#)

2020 · Science Advances · 747 citations (GS)

Field-normalised: 605 Semantic Scholar citations place it in the top 1% of Medicine papers from 2020 indexed by Semantic Scholar, by citation count.

No.	Citing paper	Citing institution(s)	Country	S2
1	<a href="#">COVID-19 lockdown induces disease-mitigating structural changes in mobility networks</a> (2020)	Robert Koch Institute, Technical University of Denmark	Denmark, Germany	Background
2	<a href="#">A Deep Gravity model for mobility flows generation</a> (2021)	Bruno Kessler Foundation, Italian National Research Council, Sapienza University of Rome	Italy, United Kingdom	Background

Independent citing papers only; self- and co-author citations excluded. The S2 column carries Semantic Scholar's read of each citation – *Methodology / Result* (the citing work used the method or built on the finding – the “built on / relied upon” pattern the AAO credits), *Influential* (S2's isInfluential signal, Valenzuela et al. 2015), or *Background* (a passing mention).

## D. Citing-Institution Prestige & Geography

### Top citing institutions

Institution	Country	World ranking	Citing papers
Technical University of Denmark	Denmark	SCImago #404 · THE 121 · QS 107	1
Sapienza University of Rome	Italy	THE =170 · QS 128	1
Robert Koch Institute	Germany	SCImago #1393	1

Institution	Country	World ranking	Citing papers
University of Bristol	United Kingdom	SCImago #478 · THE =80 · QS 51	1
Bruno Kessler Foundation	Italy	—	1
Italian National Research Council	Italy	—	1

## Geographic distribution of citing authors

Country	Citing papers
Denmark	1
Germany	1
Italy	1
United Kingdom	1

Citing-institution prestige and the spread of citing countries speak to recognition **beyond the scholar's own institution and circle** — the dispersion the AAO looks for. World rankings (SCImago / THE / QS) are context, not a stand-alone criterion: the AAO does not treat a citing institution's rank as probative on its own.

## F. AAO Precedent Considerations

### Pre-filing self-check (AAO denial patterns)

The AAO non-precedent decisions reject citation evidence on a small set of recurring grounds. Confirm the petition addresses each before filing:

- Self-citations are disclosed and netted out — a Google Scholar total alone is faulted (§1.1).
- Evidence is per individual article, not a body-of-work aggregate total (§1.2).
- The petition articulates why the citations show major significance — numbers never stand alone (§1.5).
- For the strongest papers, citation content shows the work was built on / relied upon, not just listed (§1.6, §2.2).
- Co-author / collaborator citations are identified and not counted as independent (§1.7).
- Recognition is shown beyond the scholar's own institution and circle (§1.8).
- Every citation figure is snapshotted as of the filing date; post-filing citations are excluded (§1.9).
- Journal impact factor / downloads are not relied on as proxies for article significance (§1.10, §1.12).
- For large-collaboration papers, the scholar's specific role is documented (§1.13).
- Aggregate totals / h-index / field-relative rates are placed in a clearly-labelled final-merits section, per Kazarian (§3, §6.1.7).

### Disclaimer

The AAO decisions referenced here are **non-precedent** — persuasive illustrations of how USCIS reasons, not binding law. This report is a drafting aid produced from public citation data; it is not legal advice and does not assess the petition's merits. All analysis must be reviewed by qualified immigration counsel.

## G. Citation Evidence Index

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Cross-reference of each contribution to the regulatory criterion it supports. Counsel should map these to the petition's exhibit numbers.

<b>Contribution</b>	<b>Core paper</b>	<b>Indep. cites</b>	<b>Supports</b>
Contribution 1	Mobile phone data for informing public health actions across the COVID-19 pandemic life cycle	2	8 CFR 204.5(h)(3)(v) – Criterion 5