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The view from above: a drone's perspective on the world

Drones are used increasingly by amateur photographers, which is why **Dr Elisa Serafinelli** and **Dr Lauren Alex O'Hagan**, at the **University of Sheffield** in the UK, are exploring whether and how drone visuals are changing our visual culture. The **project** aims to encourage readers and viewers to reflect on how drones have created new ways of visualising and embodying our world

TALK LIKE A VISUAL CULTURE RESEARCHER

DRONE – the common name for an uncrewed aerial vehicle (UAV), an aircraft without a human pilot

DRONE VISUALS – photos and videos taken by drones

NON-COMMERCIAL DRONE USER – an amateur drone pilot who flies for a hobby

SOCIAL SEMIOTICS – a branch of semiotics, the study of symbology, which investigates how humans convey and understand meaning in social and cultural circumstances through signs and symbols

THEMATIC ANALYSIS – analysing themes by identifying and interpreting patterns of meaning

VISUAL COMMUNICATION – the use of images and videos to communicate meaning

VISUAL CULTURE – a term that refers to all visual forms and practices within a society, together with the processes of production, consumption and/or reception associated with them

Drones, or uncrewed aerial vehicles (UAVs), have the ability to provide a unique perspective on our world, enabling amateur drone photographers to capture truly beautiful views from above. Drones have experienced a boom in popularity in recent years. The decreasing cost of purchase has seen an increase in drone ownership. Today, many people can now enjoy the thrill of capturing views from above while flying their own personal drone.

This emerging method of photography has opened new avenues for research in the field of visual communication. How and why do non-commercial drone users take photos? How are these images circulated and shared with others? How do the public perceive photos taken from drones?

These are some of the questions that Dr Elisa Serafinelli and Dr Lauren Alex O'Hagan, at the University of Sheffield, hope

to answer as they investigate how drones are shaping our visual culture.

ANALYSING DRONE IMAGES

Elisa and Lauren have been collecting photos taken by non-commercial drone users and using visual social semiotic analysis to explore their composition. “Visual social semiotic analysis is a methodological tool to investigate how different multimodal resources (e.g. colour, texture, framing and angle) work together in images to construct meaning and convey ideas and knowledge about our society,” explains Lauren. Applying this methodology enabled them to identify ten distinct categories of drone image, such as panoramic views, bird’s eye views, and ‘dronies’ – selfies taken by drones.

To assess public perception of drone images, Elisa and Lauren have curated a digital exhibition to display some of the drone users’ photos. Visitors to the exhibition can comment on each image and complete a post-exhibition survey. In the survey, visitors are asked to reflect on the drone images, prompted by questions such as ‘How do the shadows change your experience of the image?’ and ‘What emotions does this image make you feel?’

“All comments and survey responses will be subjected to thematic analysis to tease out key topics related to people’s opinions of drones,” says Elisa, “whether in terms of the composition of visuals, the feelings they generate, or broader reflections on drones and the view from above.”

PERCEPTIONS OF DRONE VISUALS

Survey responses so far have suggested that drone visuals can challenge people’s current understanding of drones and

drone photography. “Many members of the public expressed surprise that drones can be used artistically to create abstract art and that they were increasingly owned by ‘ordinary people’, not just techies or the military,” says Lauren. “However, many viewers felt that drones could never replace traditional landscape photography as most users are pilots first and photographers second.”

THE VIEW FROM ABOVE: A DRONE'S PERSPECTIVE ON THE WORLD

DR ELISA SERAFINELLI AND DR LAUREN ALEX O'HAGAN



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Reference

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VISUAL, CULTURAL AND DIGITAL MEDIA STUDIES WITH DR ELISA SERAFINELLI AND DR LAUREN ALEX O'HAGAN

TALKING POINTS

KNOWLEDGE

1. What advantages does drone photography have over traditional aerial photography?
2. How are Elisa and Lauren investigating whether drone visuals are changing our visual culture?
3. What have Elisa and Lauren discovered about people's perceptions of drones and drone photography after looking at the drone images in their exhibition?

COMPREHENSION

4. How can drones provide 'new perspectives' on the world?
5. When asked to reflect on drone images, why do you think Elisa and Lauren prompt survey participants with specific questions, rather than just asking 'What do you think about this image?'
6. How has digital technology changed our visual culture?

APPLICATION

7. What methods do you think Elisa and Lauren use to investigate how drone visuals are circulated and shared with others?
8. How do Lauren's previous research projects address questions in the field of visual culture? How do you think she uses the knowledge and skills gained during these past projects in this project about drone visuals?
9. What topic would you most like to study in the field of visual, cultural and/or digital media studies?

CREATIVITY

10. Imagine you take three drone photos of your neighbourhood – a panoramic view, a bird's eye view and a drone. How do you think the images would differ? What might the different views convey about your neighbourhood? Which image do you think you would prefer, and why?
11. For her PhD, Elisa explored how Instagram changed people's visual experiences and online social practices. How would you design a study to investigate how your classmates use visual communication in digital environments? Think about what digital platforms they use, the types of visuals they share and how people perceive and react to these visuals. What research question would you want to answer? What methods would you use to collect data to answer this question?

ACTIVITIES TO DO AT HOME OR IN THE CLASSROOM

1. Look at the three drone images captured by non-commercial drone users working with Elisa and Lauren (1. Oyster beds, Jersey; 2. Buddhist temple, Thailand; 3. Maloja Pass, Switzerland).
 - How has the use of drones captured new perspectives of each of these places?
 - What are your impressions of each image?
 - Which is your favourite image? Why?
2. Search online for news articles related to drones. Try to find three positive stories and three negative stories. How do these stories differ? Think about the language used in the articles, as well as any accompanying images. What do the images used convey about drones? How do you think these different articles influence public opinions about drones? How do they highlight the range of uses, both positive and negative, for drones?
3. Take part in Elisa and Lauren's research! Visit their digital exhibition at www.visualsociety.net/exhibition, look at the photos taken by amateur drone photographers, then complete their survey to let them know your opinions about drones and drone photography.

MORE RESOURCES

- Visit Elisa's website, Visual Communication in Society (www.visualsociety.net), to find videos and podcasts about this project, and to learn more about her other research.
- Practice your drone piloting skills! While the views included in this drone simulator are not quite as good as the images in Elisa and Lauren's exhibition, it is definitely fun to play: www.crazygames.com/game/drone-simulator

[Link to the activity sheet](#)





Maloja Pass, Switzerland. Photo by Romeo Ducher.



Oyster Beds, Jersey. Photo by Paul Lakeman.



Buddhist Temple, Thailand. Photo by Eric Hanscom.



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Survey participants have commented that drone images can offer new perspectives on the world, as drones provide a viewpoint that is not accessible to us on the ground. Quoted advantages of drone photography over traditional aerial photography (conducted from a plane) include how drones are more eco-friendly and socially inclusive, providing a greener and cheaper alternative for amateur photographers.

"Drawing attention to how drones are used in everyday life for photography definitely came as a positive surprise to many members of the public who still associated their usage with warfare and surveillance, and they openly stated that it had made them rethink their understanding of drones," explains Lauren. "While this is great from the perspective of our research, we must be careful not to down-play people's persisting concerns around drones."

Understandably, some respondents remained concerned about issues of drone surveillance and privacy. It would feel very intrusive to have a drone buzzing overhead if you were sitting in your garden or enjoying a day at the beach, knowing that it has the potential to be filming you from above. And while drones are reasonably

another concern raised by participants as the buzzing hum of a drone can spoil a peaceful landscape.

Elisa and Lauren are keen to emphasise they are not trying to create a utopian image of drones or deny that the view from above can be problematic, but they do hope to encourage people to reflect more critically on their artistic, aesthetic, social, cultural, historical and political connotations. Their digital exhibition should be seen as a springboard to open a dialogue on the topic. Museums and art galleries can also contribute to normalising the use of drones by exhibiting drone photographs.

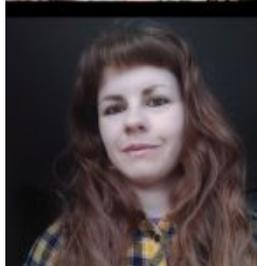
Hopefully, Elisa and Lauren's research will help the public to appreciate the new and creative ways in which drones can operate and showcase the unique perspectives of our world that they can capture.



DR ELISA SERAFINELLI

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FIELD OF RESEARCH: Digital Media, Media and
Communication, Visual Studies



DR LAUREN ALEX O'HAGAN

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FIELD OF RESEARCH: Victorian and Edwardian Material Culture, Media
and Communication, Visual Studies

RESEARCH PROJECT: Investigating public perceptions of drone visuals

FUNDER: Arts and Humanities Research Council (AHRC)

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ABOUT VISUAL, CULTURAL AND DIGITAL MEDIA STUDIES

Elisa and Lauren's research is multidisciplinary, spanning the fields of visual, cultural and digital media studies. The field of visual studies is concerned with how visual artefacts are used and understood, while cultural studies focuses on everyday practices of life and how cultures are constructed and evolve. Digital media studies investigates how digital content is created and used and how it impacts society.

“When combined, all three disciplines offer a complementary way of exploring how our social, cultural and political worlds are shaped by media technologies,” explains Elisa. “This multidisciplinary approach enables us to identify the motivations behind drone visuals and their

sociocultural effects. In addition, we investigate how technological developments influence our visions, practices and understanding of the space in which we live.”

VISUAL COMMUNICATION IN A DIGITAL SOCIETY

“Visual communication has always been an essential part of human communication,” says Elisa. If a picture is worth a thousand words, then it is no wonder that we rely so heavily on images. But, in an increasingly digital society, our methods for producing and distributing visual artefacts are rapidly changing, as is the way we interpret visual information. A picture is no longer a canvas masterpiece painted over several weeks, to be hung in a grand house. Today, a picture is a moment snapped by a smartphone and instantly shared with the world.

“The internet has increased interactivity and connectedness like never before,” says Elisa. “The expansion of social media, smartphones, artificial intelligence and virtual reality has altered the way we interact by extending options for unique visual communication.”

APPRECIATING DRONE VISUALS

Lauren finds studying drone visuals to be a real pleasure (and looking at the photos exhibited for the project, it is easy to see why). Photographs have a way of transporting the viewer to the place in the image. When admiring drone images, you can travel to a Buddhist temple in Thailand or a snowy mountain pass in Switzerland from the comfort of your own home.

“The more you look at an image, the more subtle things you begin to notice in terms of framing, angle or the use of light and shade,” says Lauren. “I find it extremely rewarding when

sharing these findings with others leads to positive feedback or opens a debate about different aspects of drone photography. It means that all of our research has been worthwhile.”

EXPLORE A CAREER IN VISUAL, CULTURAL OR DIGITAL MEDIA STUDIES

- With a degree in visual, cultural or digital media studies, you could be a photographer, graphic designer, journalist or art consultant. You could find yourself working in an advertising firm, for a publishing company, on a film set, as a social media manager or at a museum. Or you could become an academic like Elisa and Lauren.
- Elisa advises broadening your knowledge of visual culture by joining local clubs that teach activities such as photography, art or computing. She also suggests trying to find work experience in journalism, social media or communication agencies.
- Explore the resources from organisations such as the Association of Internet Researchers (www.aoir.org), the International Association for Media and Communication Research (www.iamcr.org) or the European Communication Research and Education Association (www.ecrea.eu) to learn more about the topics studied by visual, cultural and digital media researchers.
- Prospects has information about what you can do with a degree in media studies:
www.prospects.ac.uk/careers-advice/what-can-i-do-with-my-degree/media-studies

PATHWAY FROM SCHOOL TO VISUAL, CULTURAL OR DIGITAL MEDIA STUDIES

The interdisciplinary nature of visual, cultural and digital media studies means many subjects are beneficial if you want to pursue a career in these fields. “Studying English, history, art, photography or sociology

at school or college would provide a good grounding in forms of human communication, as well as how society has been (re)shaped by communication throughout history,” says Lauren.

Many universities offer degrees in visual culture, digital media, media studies, art history, and language and communication. “Any of these would provide an excellent foundation for someone wishing to study and research visual culture or digital media practices as a career,” says Lauren.

MEET DR ELISA SERAFINELLI

When I was younger, I enjoyed photography and painting. I was also interested in visual communication and the history of art. For my PhD, I explored how Instagram changed people’s visual experiences and online social practices. As a result of this work, I published a book titled *Digital Life on Instagram* and wrote several academic journal articles. Publishing this book is one of the highlights of my career so far.

I am currently the co-director of the Digital Society Network at the University of Sheffield. We are a loose network of researchers within the Faculty of Social Sciences, examining all aspects of digital-society relations. We aim to stimulate and support research into our digital society.

My ambition is to become a leader in the field of visual mobile communication in the digital age. I hope to bring visual communication and cultural studies researchers into conversation with other fields, especially internet, digital and mobile media studies.

In my free time, I enjoy doing sports and outdoor activities. I also like travelling and baking, and I still retain my interest in photography and painting.

MEET DR LAUREN ALEX O'HAGAN

I have quite an eclectic research background! But all my projects have been grounded in visual culture and are concerned with the ways in which a particular visual artefact communicates ideas.

My PhD focused on Edwardian book inscriptions and what they reveal about social class in early 20th century Britain. After my PhD, I became interested in exploring broader Edwardian visual culture and its overlap with socio-political issues, so I turned my attention to propaganda postcards.

I was interested in how postcards were used to promote political messages to the public using a combination of words, images, colour and typography. I studied political postcards related to the women's suffrage movement and the Irish campaign for Home Rule. At the same time, I also developed an interest in Victorian and Edwardian food and drink advertisements and the ways in which science was used to promote certain products.

More recently, I have investigated rock memorabilia, particularly tour t-shirts and battle jackets (denim cut-offs with patches worn by heavy metal fans). Using a combination of visual analysis and interviews, I have explored how their designs enable fans to signal individual and collective identity.

My greatest career highlight to date was the opportunity to work as a visiting scholar at Örebro University in Sweden after finishing my PhD. I was invited there by Professor David Machin, a leading academic in my field whose work I greatly admire. I am thrilled to be returning to Örebro in 2022 to take up a postdoctoral researcher role, where I will continue my research on the use of science in the 20th

century food and drink advertising, but this time in a Swedish context.

Music is my biggest passion – I play bass guitar, go to live gigs and run an Instagram fan page for my two favourite musicians. I also love reading, learning foreign languages, travelling, swimming and playing squash.

ELISA AND LAUREN'S TOP TIPS

01 Have an intellectual curiosity and be attentive to the world around you.

02 Going abroad to study or work will broaden your horizons and heighten your ambitions.

03 Don't take everything you read or see at face value – think about the deeper meanings and agendas behind it. This will help you develop many important skills that will be useful as a researcher.

Do you have a question for Elisa and Lauren?

Write it in the comments box below and Elisa and Lauren will get back to you. (Remember, researchers are very busy people, so you may have to wait a few days.)



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