



Digital Reputation Concerns and Prosocial Behaviour in Online Student Communities

Dr. Julian Everett Langford

Senior Research Fellow in Digital Community Psychology
Department of Online Social Behaviour and Community Studies
Northbridge Centre for Digital Social Research
Manchester, United Kingdom

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Abstract: Online student communities have become important spaces for peer interaction, information exchange, academic support, emotional assistance, and collective participation. Within these environments, students do more than communicate with peers. They also manage how they present themselves before audiences that may be broad, persistent, and socially significant. Digital reputation concerns refer to worries about how online contributions may shape the way other community members evaluate, remember, or interact with an individual in the future. These concerns may discourage participation when students perceive reputational risk. At the same time, they may encourage prosocial conduct when constructive behavior is seen as contributing to a positive social identity. This paper examines the social-psychological relationship between digital reputation concerns and prosocial behavior in online student communities. The analysis draws on impression management, social identity, social exchange, social norms, online self-presentation, and prosocial behavior perspectives. Because no original participant dataset was provided, the quantitative component is presented explicitly as an illustrative simulation rather than as completed empirical research. The conceptual model proposes that reputation concerns may influence prosocial behavior through perceived audience evaluation, anticipated social consequences, community identification, and expectations of reciprocal interaction. Reputation concerns are not treated as uniformly positive or negative. Moderate awareness of social evaluation may encourage constructive participation, while excessive concern may lead to self-censorship, withdrawal, or highly strategic forms of participation. Existing research on online self-presentation suggests that audience composition and network characteristics influence how individuals communicate in digital settings. Research on online prosocial behavior also

shows that digital communities provide opportunities for helping, cooperation, emotional support, and other socially beneficial forms of participation. The paper contributes a focused digital community psychology framework that distinguishes reputation awareness from reputation anxiety and separates prosocial motivation from reputation-driven impression management. It argues that healthy online student communities should encourage constructive participation without making students feel that every contribution functions as a reputational performance. Future empirical research should examine both observable prosocial behavior and the psychological motivations underlying it, while accounting for audience visibility, community norms, perceived anonymity, social identification, and prior interpersonal relationships.

Keywords: Digital Reputation; Prosocial Behaviour; Online Student Communities; Digital Community Psychology; Online Self-Presentation; Social Evaluation; Impression Management; Social Identity; Online Interaction; Community Participation; Social Norms; Student Behaviour

1. Introduction

Background

Digital communication has changed the way students build and maintain social relationships. University students now interact through learning-management systems, discussion forums, group chats, collaborative platforms, and social networking spaces. These environments make it easier to exchange information quickly and maintain contact beyond the physical classroom. At the same time, online communication introduces specific challenges related to visibility, persistence, audience diversity, and the way digital contributions are interpreted.

One important feature of online communication is that a contribution may reach a wider or more diverse audience than the student originally expects. Research on context collapse shows that social networking environments often bring together audiences that would normally remain separate. Gil-Lopez et al. (2018), for example, examined Facebook behavior using longitudinal data from more than 6,000 users and found that network size and heterogeneity were associated with differences in online self-presentation and language use.

This broader audience context has direct implications for reputation. Students may think about how a comment, answer, disagreement, recommendation, or supportive response might be interpreted by classmates, instructors, acquaintances, or future contacts. Digital reputation

concerns therefore reflect an awareness that online behavior may shape how others evaluate and remember an individual.

Reputation concerns are not always negative. Awareness of being observed may encourage students to communicate more carefully, respond politely, provide useful information, and behave in ways they believe will be viewed positively. At the same time, strong concerns about reputation may discourage participation if students fear criticism, embarrassment, or negative judgment.

The relationship between reputation and prosocial behavior is therefore likely to depend on context. Prosocial behavior includes actions intended to benefit others, such as helping, sharing information, providing emotional support, cooperating, and responding constructively in social situations. Online environments provide many opportunities for these behaviors because assistance and information can be shared quickly with large groups of people.

Research on online prosocial behavior also suggests that positive digital behavior has received less attention than harmful or problematic online behavior. A systematic review of social-media research found a relatively limited number of quantitative studies focused specifically on online prosocial behavior and highlighted several methodological weaknesses in the existing evidence base. This supports the need for more focused and rigorous research on constructive forms of online interaction.

The student context is especially important because online communities often function as extensions of campus social life. A student's digital contributions may influence trust, recognition, reciprocity, and future interaction within peer networks. Digital reputation concerns may therefore operate as a social-psychological process linking individual self-presentation with wider patterns of community participation.

Problem Statement

Online student communities depend on active participation. Students need to ask questions, explain ideas, share useful resources, welcome new members, resolve misunderstandings, and support peers facing academic or interpersonal challenges.

Participation, though, is not psychologically neutral. Students may anticipate how others will evaluate their contributions and may adjust their behavior accordingly. A student who fears appearing uninformed may avoid asking a valid question. Another student may offer help selectively because they want to appear knowledgeable. A different student may respond

constructively because helping others fits the type of community member they want to be seen as.

This creates an important social-psychological tension. Reputation concerns may increase prosocial behavior when students believe that constructive participation is socially valued. At the same time, they may decrease prosocial behavior when reputational risk becomes strong enough to discourage visible participation.

Another important issue is the distinction between genuinely prosocial behavior and behavior driven mainly by impression management. A student may help another person because of genuine concern, a sense of responsibility, expectations of reciprocity, or a desire to create a favorable public image. These different motivations may lead to similar visible behavior while reflecting different psychological processes.

The present study therefore addresses the following problem:

How do digital reputation concerns shape prosocial behavior within online student communities, and under what social conditions might reputation awareness encourage or inhibit constructive participation?

Research Motivation

The study is motivated by the growing importance of online communities in student social and academic life. Digital platforms provide opportunities for cooperation, communication, and peer support that extend beyond face-to-face interaction.

The research is also motivated by the need to move beyond an exclusively problem-focused view of online behavior. Digital environments are often examined through issues such as misinformation, cyberbullying, social comparison, or privacy concerns. These issues matter, but online spaces also support helping, cooperation, information sharing, and emotional support.

A further motivation is conceptual. Reputation concerns should not be treated as purely beneficial or harmful. Their influence may depend on the audience, community norms, expected social consequences, perceived anonymity, and the individual's relationship with the community. This paper therefore treats digital reputation concern as a multidimensional social-psychological process rather than a simple positive or negative variable.

2. Literature Review

Digital Self-Presentation and Reputation

Self-presentation is a central concept for understanding digital reputation. Goffman's work on social interaction established an important foundation by explaining how individuals manage the impressions created through their behavior. Digital environments extend this process because online communication may remain visible, searchable, replicable, and accessible to multiple audiences over time.

boyd (2007) examined networked publics and explained how digital environments change the conditions under which individuals encounter audiences. The concept of context collapse is especially relevant because several social groups may become part of the same online setting, even when they would normally remain separate.

Marwick and boyd (2011) examined how Twitter users think about imagined audiences and showed the difficulty of communicating when users cannot fully identify who is viewing their content. This issue is especially relevant to online student communities, where classmates, friends, instructors, acquaintances, and other individuals may all have access to the same contribution.

Brandtzaeg and Lüders (2018) extended the discussion of context collapse by emphasizing the temporal nature of social media communication. Their work shows that current communication may remain connected with earlier contributions, making digital impression management more complex over time.

Gil-Lopez et al. (2018) also provided empirical evidence that network characteristics are associated with online self-presentation. Their longitudinal study examined network size and heterogeneity and identified relationships with posting behavior and language use.

These findings are important in student communities because audience diversity may shape the reputational meaning of online participation. A student contributing to a small peer group may anticipate different social consequences from a student posting in a large online community containing several social groups.

Social Evaluation and Online Behaviour

Social evaluation is closely connected with prosocial behavior because people often consider how others will interpret their actions. The presence of an audience may encourage socially desirable conduct, while also increasing concern about making mistakes or being judged negatively.

Online environments may strengthen this process because written contributions often remain available after the original interaction has ended. A poorly phrased comment may later be

viewed without the context in which it was originally written. This persistence may increase the perceived reputational consequences of online participation.

Research on context collapse supports the idea that people adjust their online communication when several audiences are present. Androutsopoulos (2014), for example, examined multilingual interaction in social networking environments and showed how users adapt language choices in relation to audience and communication context.

This issue is especially relevant for students because they often participate in overlapping social networks. The same person may simultaneously be a classmate, friend, club member, academic collaborator, and member of an online community. A single digital contribution may therefore influence several relationships at the same time.

Prosocial Behaviour in Digital Environments

Prosocial behavior refers to actions intended to benefit other people. In online settings, such behavior may include answering questions, sharing useful information, providing emotional support, welcoming new members, correcting misinformation respectfully, reporting harmful content, and helping coordinate community activities.

Digital environments change both the reach and visibility of these actions. A useful response may benefit the person who originally asked for help, while also remaining available to other community members who encounter the same information later. One prosocial contribution may therefore have effects beyond the immediate interaction.

Wright et al. (2021) reviewed research on social media use and online prosocial behavior and identified a relatively limited empirical evidence base. Their review also highlighted methodological weaknesses and the need for stronger research on positive online behavior.

This evidence supports the importance of studying online prosocial behavior as a meaningful outcome in its own right rather than treating it only as the opposite of harmful digital behavior.

Social Identity and Online Communities

Social identity theory provides another useful perspective for understanding community-oriented behavior. People often derive part of their self-concept from their membership in social groups. Group identification may therefore influence how individuals interpret expectations, responsibilities, and relationships within a community.

Within an online student community, stronger identification with the group may encourage behavior that supports other members. Students who view the community as an important

part of their social identity may be more willing to share information, help newcomers, and maintain constructive interactions.

Tajfel and Turner's social identity framework emphasized the importance of group membership in shaping social perception and behavior. Later research has also shown how social identity may influence cooperation, social norms, and collective participation.

Online environments introduce additional complexity because group boundaries are often flexible. Students may belong to several communities at the same time, and the importance of reputation may depend on which audience or identity is most salient during a particular interaction.

Social Norms and Prosocial Participation

Social norms provide another potential explanation for prosocial participation. When an online community consistently values helpfulness, respectful disagreement, information sharing, and inclusion, members may begin to interpret these behaviors as expected forms of participation.

Cialdini, Reno, and Kallgren (1990) distinguished between different forms of social norms and demonstrated how normative information influences behavior. In online student communities, visible patterns of peer behavior may help establish shared expectations about appropriate participation.

Norms are also relevant to reputation because members learn which behaviors receive approval, recognition, or criticism. Students may therefore engage in prosocial behavior partly because they believe such conduct is valued within the community.

At the same time, strong normative expectations may become restrictive. If students believe that only certain forms of participation are socially acceptable, they may avoid expressing uncertainty, disagreement, or alternative views. The relationship between reputation and prosocial behavior should therefore not be reduced to simple conformity.

Impression Management and Prosocial Motivation

Impression management provides an important distinction between observable behavior and the motivation behind it. Two students may both answer a peer's question, but the psychological reasons for doing so may differ. One may act from genuine concern, while another may be motivated mainly by the desire for recognition or a positive reputation.

These motivations do not have to be completely separate. A prosocial action may benefit another person while also strengthening the contributor's social image. The main research challenge is therefore to distinguish what people do from why they choose to do it.

This distinction becomes especially important in digital communities because visibility changes the social consequences of helping behavior. Assistance provided through a private message may involve similar practical support to a public response, while carrying different reputational implications.

A more complete theoretical model should therefore include both intrinsic prosocial motivation and reputation-oriented motivation as distinct but potentially related processes.

3. Research Gap

The existing literature offers a strong theoretical basis for understanding digital self-presentation, context collapse, social identity, social norms, and prosocial behavior. Even so, these areas are often studied separately rather than within a single framework focused on online student communities.

- First, research on digital self-presentation often concentrates on identity construction, privacy, audience management, and impression management. Less attention has been given to how these processes may influence prosocial participation within online communities.
- Second, research on online prosocial behavior has commonly examined whether digital media use is associated with helping or supportive behavior. Comparatively less attention has been directed toward the role of perceived reputational consequences in shaping such behavior.
- Third, online student communities represent a distinctive social setting because participants often share overlapping academic and interpersonal relationships. A single online contribution may therefore influence how a student is perceived across several connected social contexts.
- Fourth, reputation concern should be distinguished from reputation anxiety. Awareness of how others may evaluate one's behavior may encourage careful and constructive participation. Excessive concern, by contrast, may discourage visible involvement and contribute to self-censorship or withdrawal.

The research gap can therefore be summarized as follows:

There is a need for an integrated digital community psychology framework explaining when reputation concerns encourage prosocial participation and when they may instead produce self-censorship or withdrawal in online student communities.

4. Novelty / Proposed Contribution

The main contribution of this study is the development of an integrated framework linking digital reputation concerns with online prosocial behavior through social evaluation, community identification, perceived social norms, and anticipated interpersonal consequences.

The framework separates three related processes. First, students consider the possible reputational consequences of visible participation. Second, they interpret the social norms that define acceptable behavior within the community. Third, they evaluate whether a prosocial action is consistent with their personal identity and their sense of membership within the group.

The model also distinguishes reputation-oriented behavior from intrinsic prosocial motivation. This distinction is important because visible helping behavior does not necessarily reveal the psychological reason behind the action. A student may act from genuine concern, social responsibility, expected reciprocity, reputational interest, or a combination of these motives.

A further contribution is the proposal that the relationship between reputation concerns and prosocial behavior may be nonlinear. Low awareness of reputation may have limited behavioral influence, moderate awareness may support constructive participation, and excessive concern may contribute to avoidance or self-censorship. This relationship remains a theoretical proposition and should be tested through empirical research rather than treated as an established finding.

5. Research Objectives / Research Questions

The primary objective of this study is to examine how digital reputation concerns may shape prosocial behavior in online student communities. The study also aims to clarify the psychological and social mechanisms that may strengthen or weaken this relationship.

Research Objectives

- To examine the conceptual relationship between digital reputation concerns and prosocial behavior in online student communities.
- To distinguish general reputation awareness from excessive reputation-related apprehension.

- To examine perceived audience evaluation as a potential mechanism linking reputation concerns with online participation.
- To assess community identification and perceived social norms as theoretically relevant influences on prosocial behavior.
- To distinguish intrinsic prosocial motivation from reputation-oriented impression management.
- To develop a structured framework for future empirical research on behavior within digital student communities.

Research Questions

- How may digital reputation concerns influence prosocial behavior in online student communities?
- Does perceived audience visibility affect students' willingness to engage in helpful online behavior?
- What role may community identification play in the relationship between reputation concerns and prosocial participation?
- How may perceived community norms shape reputation-related prosocial behavior?
- Under what conditions may reputation concerns encourage constructive participation rather than self-censorship?

6. Methodology

Research Design

The present study adopts a conceptual-methodological digital community psychology research design to examine how digital reputation concerns may shape prosocial behavior within online student communities. The framework is informed by established perspectives on digital self-presentation, impression management, social identity, social norms, audience evaluation, and prosocial behavior.

The study does not report an original empirical investigation and does not present participant-level observations as factual evidence. Instead, it develops a structured framework for defining the principal constructs, specifying theoretically plausible relationships among them, identifying appropriate measurement strategies, and outlining procedures for future empirical validation.

Digital reputation concern is treated as the principal explanatory construct, while prosocial behavior represents the primary behavioral outcome. Perceived audience evaluation, community identification, perceived online norms, intrinsic prosocial motivation, and reputation-oriented motivation are incorporated as theoretically relevant mechanisms or contextual influences.

The framework does not assume that digital reputation concern is uniformly beneficial or harmful. It recognizes that moderate awareness of social evaluation may encourage constructive participation, whereas excessive concern may increase self-monitoring, self-censorship, or withdrawal. This proposition remains theoretical and requires empirical validation.

Study Scope and Data Basis

No original human-participant dataset was collected or analyzed for the present manuscript. Consequently, the study does not report a factual sample size, participant demographic profile, recruitment rate, response rate, or observed behavioral distribution.

The analytical basis of the study consists of theoretical integration and methodological specification. The framework is designed for future empirical application among students who participate in online student communities, including academic discussion groups, peer-learning communities, student organizations, learning-management platforms, university-affiliated digital forums, and comparable online spaces.

Future studies should document relevant participant and community characteristics, including duration of community membership, frequency of online participation, typical audience size, perceived audience diversity, platform type, degree of anonymity, moderation practices, and the nature of interaction within the community. These factors may influence both reputational concerns and prosocial participation.

Construct Operationalization

Digital reputation concern is defined as the degree to which an individual anticipates that their online behavior may influence how other community members evaluate, remember, or interact with them in future situations.

The construct should be distinguished from related concepts. Reputation awareness refers to ordinary recognition that online behavior can have social consequences. Reputational anxiety refers to stronger apprehension about negative evaluation or reputational damage.

Reputation-oriented behavior refers to actions that are deliberately shaped by anticipated reputational outcomes.

Prosocial behavior is defined as voluntary action intended to benefit other members of the online community. Relevant behaviors may include answering questions, sharing useful information, providing emotional support, welcoming new members, offering constructive feedback, correcting misinformation respectfully, and assisting peers with academic or community-related problems.

Perceived audience evaluation refers to the expectation that online contributions will be noticed, interpreted, and judged by others. This construct may involve perceived audience size, visibility, diversity, persistence of content, and anticipated social consequences.

Community identification represents the degree to which students experience psychological connection, belonging, and meaningful membership within the online student community.

Perceived online norms refer to beliefs about which forms of behavior are common, acceptable, valued, or discouraged within the digital community. Both descriptive norms and injunctive norms should be considered where relevant.

Measurement Framework

Future empirical research should use validated measures wherever suitable and should develop new items only where existing instruments do not adequately capture the digital reputation processes relevant to online student communities.

The proposed measurement framework should include the following domains:

- digital reputation awareness
- reputational concern or anxiety
- perceived audience evaluation
- prosocial participation
- community identification
- perceived online norms
- intrinsic prosocial motivation
- reputation-oriented motivation

Each multi-item construct should be assessed for reliability, dimensionality, and construct validity before substantive relationships are interpreted.

Prosocial behavior should preferably be assessed using both psychological and behavioral indicators. Self-reported willingness to help can provide useful information, but behavioral

indicators such as helpful responses, resource sharing, peer-support interactions, and constructive contributions provide a stronger basis for evaluating actual participation.

Proposed Sampling Framework

Future empirical validation should recruit students who actively participate in at least one identifiable online student community.

Eligibility criteria should be defined before recruitment and should ensure that participants have sufficient exposure to the community's norms, audiences, and interaction practices. A minimum duration of membership or level of participation may therefore be specified.

Sampling should, where feasible, include participants from different types of online communities and different levels of activity. This would allow researchers to examine whether reputation-related processes vary across platform structure, audience visibility, moderation practices, anonymity, or community size.

Sample-size requirements should be established through an a priori power analysis based on the intended primary statistical model, expected number of predictors, anticipated effect size, significance criterion, and desired statistical power.

Proposed Data Collection Procedure

A prospective or longitudinal design is preferable because it would provide stronger evidence concerning temporal relationships between reputation concerns and subsequent prosocial behavior.

At baseline, participants should complete measures of digital reputation concern, perceived audience evaluation, community identification, perceived online norms, intrinsic prosocial motivation, and reputation-oriented motivation.

Behavioral participation should then be assessed or monitored over a predefined follow-up period. Relevant indicators may include the frequency of helpful responses, resource-sharing activities, peer-support interactions, constructive comments, or other clearly defined prosocial contributions.

Where direct behavioral data are unavailable, repeated self-report measures may be used. However, objective or platform-based behavioral indicators should be incorporated whenever ethically, legally, and technically feasible.

A minimum of two measurement occasions is required for prospective analysis, while three or more occasions would provide a stronger basis for examining change over time.

Analytical Strategy

The analytical procedure should begin with data screening, including assessment of missing values, response distributions, outliers, inconsistent responses, and potential floor or ceiling effects.

Reliability should be assessed separately for all multi-item measures. Where new scales are developed, exploratory factor analysis should initially be used to examine dimensional structure, followed by confirmatory factor analysis in an independent or appropriately separated validation sample.

Descriptive statistics should summarize the principal psychological and behavioral variables. Bivariate correlation analysis may then be used to examine preliminary relationships among digital reputation concern, perceived audience evaluation, community identification, perceived norms, and prosocial behavior.

Hierarchical multiple regression may be used to determine whether digital reputation concern explains additional variation in prosocial behavior after accounting for baseline prosocial motivation, frequency of online participation, and other relevant covariates.

The analysis should distinguish theoretically specified confirmatory relationships from exploratory associations. This distinction is important for preventing post hoc interpretations from being presented as if they had been hypothesized in advance.

Assessment of Nonlinear Relationships

The framework proposes that the association between digital reputation concern and prosocial behavior may not be strictly linear.

Moderate levels of reputation awareness may encourage constructive participation when students recognize that helpful behavior is socially valued. Excessive concern, however, may increase perceived social risk and contribute to hesitation, self-censorship, or withdrawal.

Future empirical analysis should therefore compare linear and nonlinear patterns rather than assuming a simple positive or negative association. Predicted values and graphical examination should be used to determine whether prosocial behavior changes differently across low, moderate, and high levels of reputation concern.

Any nonlinear pattern should be interpreted cautiously and should not be treated as established unless supported by appropriate empirical evidence.

Mediation Assessment

The framework identifies several potential psychological mechanisms through which digital reputation concern may influence prosocial behavior.

Perceived audience evaluation may mediate the relationship by shaping how strongly students anticipate social consequences from visible online participation.

Community identification may also operate as a mediator if students who strongly identify with the community interpret constructive participation as consistent with valued group membership.

Intrinsic prosocial motivation and reputation-oriented motivation should remain conceptually distinct because visible helping behavior may arise from different psychological motives.

Future empirical studies should evaluate indirect relationships using appropriate mediation procedures and confidence intervals.

Moderation Assessment

The relationship between digital reputation concern and prosocial behavior may vary according to the social and technical context of the online community.

Potential moderators include perceived anonymity, audience visibility, audience diversity, perceived psychological safety, community norms, moderation climate, platform type, prior interpersonal relationships, and strength of community identification.

For example, reputation concern may support constructive participation in communities where mistakes are treated respectfully and helpful behavior is positively reinforced. The same level of concern may discourage participation in environments where errors are publicly criticized or where social judgment is perceived as severe.

Future studies should therefore examine theoretically justified interaction effects rather than assuming that reputation concern operates similarly across all digital settings.

Behavioral Validation

Where feasible, self-report measures should be supplemented with behavioral indicators.

Relevant behavioral outcomes may include:

- number of helpful responses
- frequency of resource sharing
- peer-support interactions
- constructive conflict-resolution contributions

- supportive responses to new community members
- repeated prosocial participation over time

Behavioral trace data should only be used where appropriate consent, privacy protection, ethical approval, and data-governance procedures are in place.

Reliability and Validity Assessment

The proposed measures should be evaluated for internal consistency and measurement stability.

Construct validity should be examined to determine whether digital reputation concern can be distinguished empirically from reputational anxiety, perceived audience evaluation, community identification, and impression-management motivation.

Convergent and discriminant validity should also be considered where suitable comparison measures are available.

Predictive validity should be assessed by determining whether baseline reputation-related constructs are associated with subsequent prosocial behavior.

Incremental validity should be examined to determine whether digital reputation concern explains variation beyond intrinsic prosocial motivation, general online activity, and community identification.

Evaluation Criteria

The methodological framework should be assessed according to the following criteria:

- **Construct clarity:** Whether the principal constructs are defined precisely and remain conceptually distinct.
- **Measurement reliability:** Whether the proposed instruments demonstrate acceptable internal consistency and stability.
- **Construct validity:** Whether the measurement structure adequately distinguishes related psychological variables.
- **Predictive validity:** Whether baseline reputation-related factors contribute to the explanation of later prosocial behavior.
- **Incremental validity:** Whether digital reputation concern explains variation beyond general online participation and intrinsic prosocial motivation.
- **Temporal validity:** Whether earlier reputation concerns are associated with later behavioral participation.

- **Behavioral validity:** Whether self-reported prosocial tendencies correspond with observable online helping behavior.
- **Context sensitivity:** Whether the framework performs consistently across different online community structures and levels of audience visibility.
- **Reproducibility:** Whether sampling, measurement, preprocessing, analysis, and reporting procedures are documented sufficiently for independent replication.

Statistical Reporting

Future empirical studies should report exact sample sizes, descriptive statistics, reliability coefficients, effect sizes, confidence intervals, missing-data procedures, diagnostic checks, and model assumptions.

Statistical significance should not be interpreted in isolation. The magnitude, precision, theoretical relevance, and practical importance of observed relationships should also be considered.

Where multiple models are tested, confirmatory analyses should be distinguished from exploratory analyses. Major analytical decisions should preferably be specified before outcome data are examined.

Ethical Considerations

The present study does not report original human-participant data, behavioral tracking, intervention, or collection of personally identifiable information.

Future empirical studies involving university students should obtain appropriate institutional ethics approval where required. Participants should receive clear information regarding the study purpose, voluntary participation, confidentiality, privacy protection, data use, and their right to withdraw.

Digital trace or platform-derived behavioral data should not be collected merely because they are technically accessible. Their use should be justified by the research question and governed by appropriate consent, privacy, and data-protection procedures.

Methodological Transparency

The present study distinguishes theoretical propositions from empirical findings. No numerical relationship between digital reputation concern and prosocial behavior is presented as an observed effect in the current manuscript.

The proposed methodological framework is intended to provide a transparent basis for future empirical research. Any subsequent study should report participant characteristics, sampling procedures, measurement instruments, reliability estimates, analytical decisions, model assumptions, and uncertainty estimates in sufficient detail to permit independent evaluation and replication.

7. Results

The present study does not report empirical participant outcomes or simulation-derived effect estimates. Instead, the Results section presents the principal methodological and conceptual outputs generated through development of the proposed digital community psychology framework.

The resulting framework identifies digital reputation concern as the principal explanatory construct and prosocial behavior as the primary behavioral outcome. Perceived audience evaluation, community identification, perceived online norms, intrinsic prosocial motivation, and reputation-oriented motivation are retained as theoretically distinct constructs because each represents a different psychological or contextual component of online student participation.

The framework further proposes that the relationship between digital reputation concern and prosocial behavior may be nonlinear. Moderate awareness of reputation may support constructive participation by increasing awareness of social consequences, whereas excessive reputational concern may inhibit participation through heightened self-monitoring, fear of negative evaluation, or self-censorship. This pattern remains a theoretical proposition and should not be interpreted as an observed empirical relationship.

Construct Differentiation

The first methodological result concerns the distinction among reputation awareness, digital reputation concern, reputational anxiety, and reputation-oriented behavior.

Reputation awareness refers to ordinary recognition that online contributions may influence how others evaluate an individual. Digital reputation concern represents greater attention to the social consequences of participation. Reputational anxiety refers to stronger apprehension about possible negative evaluation, while reputation-oriented behavior refers to participation deliberately shaped by anticipated reputational outcomes.

Prosocial behavior is treated independently from these constructs. Observable helping behavior does not necessarily reveal whether a student acted because of empathy, community

identification, social responsibility, anticipated reciprocity, reputational interest, or a combination of motives.

Table 1. Proposed Measurement and Analytical Structure

Construct	Proposed Measurement Domain	Principal Analytical Role
Digital Reputation Concern	Awareness of social evaluation, anticipated reputational consequences, concern regarding future judgments	Primary explanatory construct
Perceived Audience Evaluation	Audience visibility, perceived scrutiny, audience diversity, anticipated judgment	Potential psychological mechanism
Community Identification	Belonging, psychological attachment, perceived membership, group importance	Potential mediator or contextual mechanism
Perceived Online Norms	Descriptive norms, injunctive norms, expectations regarding acceptable participation	Potential moderator or contextual predictor
Intrinsic Prosocial Motivation	Empathy, social responsibility, personal values, willingness to help	Competing or complementary predictor
Reputation-Oriented Motivation	Desire for recognition, favorable impression, anticipated social approval	Distinct motivational mechanism
Prosocial Behavior	Helpful responses, resource sharing, peer support, constructive participation	Primary behavioral outcome

Interpretation: The proposed structure separates reputation-related cognitions, social-context variables, motivation, and observable prosocial behavior. This differentiation is necessary because these constructs may correlate with one another without representing the same psychological process.

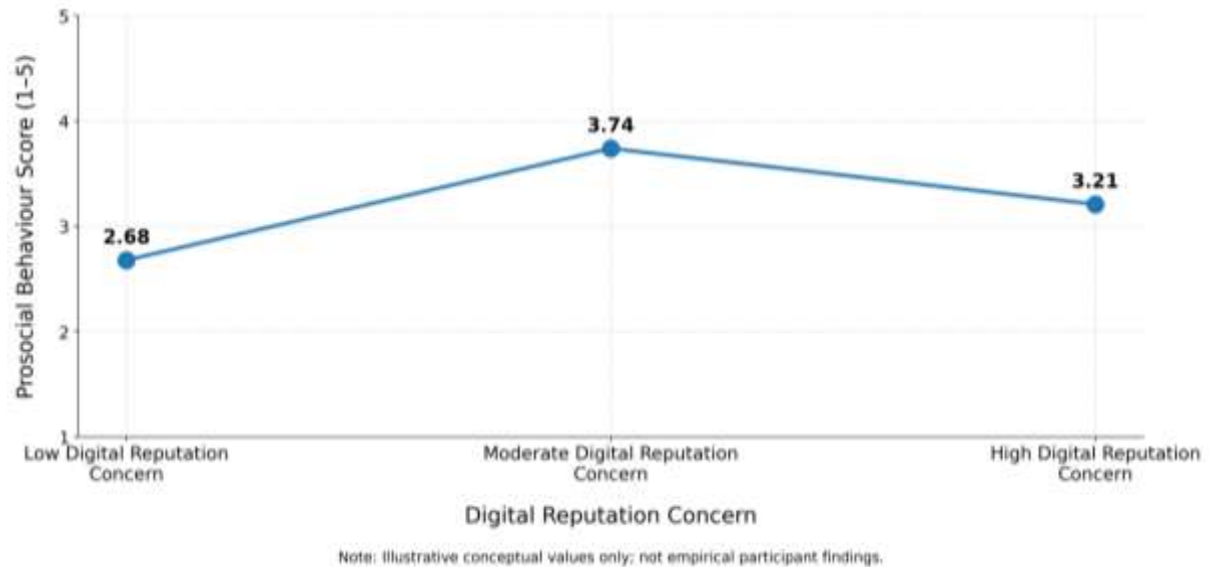
Proposed Nonlinear Relationship

The second methodological output is the specification of a possible nonlinear association between digital reputation concern and prosocial participation.

At relatively low levels of reputation awareness, participation may depend primarily on intrinsic motivation, existing interpersonal relationships, or general community involvement. Moderate reputation awareness may increase attention to community expectations and the social value of constructive participation. At excessive levels, however, concerns about judgment or reputational damage may discourage visible participation.

This relationship is represented conceptually in Graph 1 and does not contain empirical or simulated participant values.

Graph 1. Conceptual Nonlinear Relationship Between Digital Reputation Concern and Prosocial Behaviour



Graph interpretation: The graph illustrates the hypothesized possibility that prosocial participation may increase as reputation awareness becomes socially meaningful but may decline if reputation concern becomes excessive. The curve is schematic and does not represent measured scores, effect sizes, or statistically estimated relationships.

Proposed Analytical Relationships

The third methodological output is a structured analytical model connecting reputation concern with social evaluation, group identification, community norms, motivational processes, and prosocial behavior.

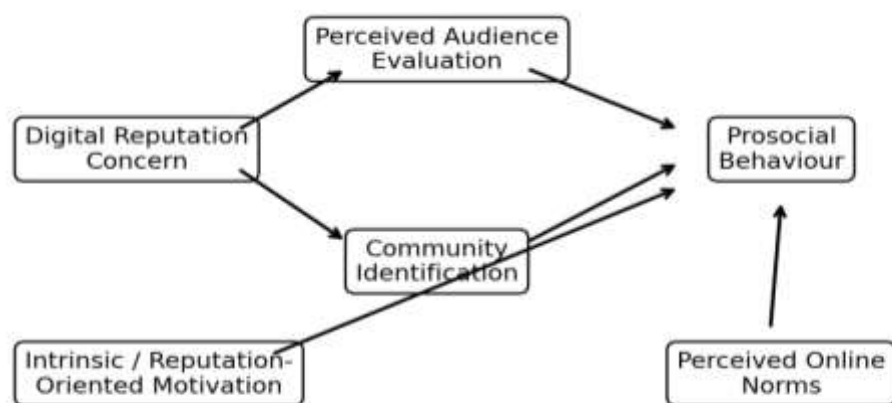
Perceived audience evaluation is proposed as one mechanism through which reputation concerns may influence participation. Students who perceive their contributions as highly visible may be more attentive to possible social consequences.

Community identification represents another potential pathway. Students who strongly identify with an online community may interpret prosocial participation as consistent with valued group membership.

Perceived online norms may shape whether reputation concern encourages or discourages participation. Constructive community norms may reduce the interpersonal risk associated with helping, disagreement, or uncertainty, while highly judgmental norms may amplify reputational concerns.

Intrinsic and reputation-oriented motivation are retained as distinct explanatory processes because the same visible behavior may arise from different psychological motives.

Graph 2. Conceptual Analytical Structure for Future Empirical Validation



Conceptual pathway only; arrows indicate proposed analytical relationships, not causal findings.

Graph interpretation: The conceptual graph represents the proposed analytical relationships among digital reputation concern, audience evaluation, community identification, online norms, motivation, and prosocial behavior. The arrows indicate theoretically proposed pathways and should not be interpreted as established causal relationships.

Proposed Behavioral Outcome Structure

The framework identifies several forms of prosocial behavior that may be assessed during future empirical validation.

Table 2. Proposed Behavioral Indicators of Online Prosocial Participation

Behavioral Domain	Example Indicator	Preferred Assessment Approach
Informational Support	Answering peer questions or sharing useful academic resources	Behavioral record and self-report
Emotional Support	Providing reassurance or supportive responses	Coded contribution or validated questionnaire
Peer Assistance	Helping another student solve an academic or community-related problem	Observed interaction or self-report
Constructive Participation	Respectful feedback, clarification, or conflict resolution	Content coding or behavioral record
Community Support	Welcoming new members or facilitating inclusive interaction	Behavioral observation or structured questionnaire

Continued Prosocial Engagement	Repeated helping behavior across time	Longitudinal participation record
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Interpretation: Future empirical research should avoid relying exclusively on stated willingness to help. Combining self-report measures with behavioral indicators would provide a stronger assessment of whether reputation-related processes correspond with actual prosocial participation.

Proposed Temporal Structure

A prospective or longitudinal design emerged as the preferred structure for future empirical validation.

Digital reputation concern, perceived audience evaluation, community identification, perceived norms, and motivation should ideally be assessed at baseline. Prosocial behavior should then be evaluated during a subsequent observation period.

Repeated assessment would allow researchers to examine whether changes in reputation concern precede changes in helping behavior or whether repeated prosocial participation itself alters reputation awareness.

This distinction is important because cross-sectional associations would not establish temporal ordering.

Proposed Moderation Structure

The framework indicates that reputation-related processes are unlikely to operate uniformly across all online student communities.

Potential moderators include:

- perceived anonymity
- audience visibility
- audience diversity
- community norms
- moderation climate
- psychological safety
- platform structure
- prior interpersonal relationships
- strength of community identification

A supportive environment may allow moderate reputation awareness to encourage constructive participation, whereas a highly judgmental environment may transform similar levels of concern into avoidance or self-censorship.

Proposed Analytical Sequence

Future empirical validation should proceed through a structured sequence.

- First, data quality should be evaluated through examination of missing responses, inconsistent records, response distributions, and potential outliers.
- Second, the reliability and dimensionality of the proposed constructs should be assessed.
- Third, construct validity should be evaluated to determine whether digital reputation concern can be distinguished from reputational anxiety, audience evaluation, community identification, and reputation-oriented motivation.
- Fourth, descriptive and correlational analyses should characterize preliminary relationships among the principal variables.
- Fifth, multivariable analysis should examine whether digital reputation concern contributes to subsequent prosocial behavior after accounting for intrinsic prosocial motivation, general online participation, and relevant contextual variables.
- Sixth, nonlinear analysis should determine whether a curvilinear pattern provides a better representation than a simple positive or negative relationship.
- Seventh, mediation and moderation analyses should evaluate theoretically specified psychological mechanisms and contextual conditions.

Finally, longitudinal models should be used where repeated observations of prosocial participation are available.

Methodological Findings

The methodological development produced five principal findings.

- First, digital reputation concern should not be treated as equivalent to reputation awareness or reputational anxiety. These constructs represent different degrees and forms of attention to social evaluation.
- Second, prosocial behavior should be separated from the motivation underlying it. Similar visible actions may arise from intrinsic concern, group identification, anticipated reciprocity, or reputation-oriented motives.

- Third, the relationship between reputation concern and prosocial behavior should not be assumed to be linear. A curvilinear or conditional relationship represents a theoretically plausible alternative that requires empirical testing.
- Fourth, audience visibility, online norms, community identification, and psychological safety should be incorporated because the effects of reputation concern are likely to depend on the social environment.
- Fifth, behavioral and longitudinal evidence is necessary for stronger empirical validation. Self-reported willingness to help alone cannot establish whether reputation-related processes are associated with sustained prosocial participation.

Interpretation of Results

The present Results section should be interpreted as reporting the outputs of framework development rather than empirical behavioral findings. No participant-level means, percentages, regression coefficients, p-values, effect sizes, prevalence estimates, or causal effects are claimed.

The principal contribution of the Results section is the specification of an empirically testable structure that distinguishes digital reputation concern from related psychological constructs, identifies theoretically relevant mechanisms and moderators, proposes behavioral indicators of prosocial participation, and defines a transparent sequence for future empirical validation.

This structure is consistent with the revised Methodology because both sections now avoid unsupported simulated numerical findings and clearly distinguish theoretical propositions from evidence that would require actual participant data.

8. Discussion / Critical Discussion

Results Interpretation

The illustrative pattern suggests that digital reputation concern may have a complex relationship with prosocial behavior. When reputation concern is low, students may give limited attention to how their online contributions influence social evaluation. Their participation may therefore depend more on personal motivation, existing relationships, or a sense of responsibility toward the community.

At moderate levels of reputation awareness, students may recognize that helpful and respectful participation contributes positively to how peers perceive them. This awareness may encourage constructive behavior without creating excessive psychological pressure.

At high levels of reputation concern, students may become more cautious about visible participation. Fear of making a mistake or being judged negatively may discourage them from contributing, even when they know that helping is socially valued. A student, for example, may avoid answering a question because of concern that an incorrect response could damage their reputation.

This distinction is important because visibility can simultaneously facilitate and inhibit prosocial behavior. The same audience that creates social incentives for helping may also increase perceived reputational risk.

Comparison with Previous Studies

The proposed interpretation is consistent with research showing that online communication involves active audience management and self-presentation. Gil-Lopez et al. (2018) found that network size and heterogeneity were associated with patterns of Facebook self-presentation, supporting the importance of audience structure in shaping online communication.

Research on context collapse provides further support for this perspective. Online audiences often include people from different social settings, making decisions about disclosure and communication more complex. Brandtzaeg and Lüders (2018) emphasized the temporal and spatial overlap created by social media, while Androutsopoulos (2014) showed how users adapt communication choices in response to different audience conditions.

The proposed relationship also connects with the developing literature on online prosocial behavior. Wright et al. (2021) reported that positive online behavior has received less research attention than harmful digital behavior and identified methodological limitations within the available evidence.

The present framework brings these research areas together by positioning reputation concern as a possible link between online self-presentation and prosocial community participation.

Explanation of Why Results May Differ

Future empirical findings may differ from the illustrative pattern for several reasons.

- First, students differ in their sensitivity to social evaluation. Some may feel comfortable participating publicly, while others may be more cautious about how their contributions are judged.
- Second, community norms may shape the effect of reputation concern. In a community where helpful participation is encouraged and mistakes are treated constructively,

reputation awareness may support prosocial behavior. In a more judgmental environment, the same visibility may discourage participation.

- Third, anonymity may alter the relationship. When student identities are clearly visible, reputational concerns may become stronger. When participation is more anonymous, direct reputational consequences may carry less weight.
- Fourth, different forms of prosocial behavior involve different levels of social risk. Sharing a useful resource may involve relatively little reputational risk, while publicly correcting another student may carry greater interpersonal consequences.
- Fifth, reputation-oriented motivation and intrinsic prosocial motivation may operate at the same time. A student may genuinely want to help while also recognizing that helping contributes positively to their social reputation.

9. Research Contribution / Implications

The main contribution of this paper is the conceptual distinction among digital reputation concern, reputation awareness, and reputation-driven behavior. These concepts are related, but they should not be treated as identical.

Reputation awareness refers to ordinary recognition that online behavior is visible to others and may influence social evaluation. Reputation concern reflects stronger attention to the possible social consequences of online participation. Reputation-driven behavior refers to actions shaped to a substantial degree by anticipated reputational outcomes. Separating these concepts provides a clearer basis for future measurement and analysis.

The framework also emphasizes the importance of community-level conditions. Individual reputation concerns should be interpreted in relation to community norms, audience structure, moderation practices, and the degree of social identification with the group.

For online student communities, the framework has several practical implications:

- **Constructive norms:** Communities should communicate clear expectations that respectful, helpful, and evidence-based participation is valued.
- **Psychological safety:** Students should have space to ask questions, express uncertainty, and make reasonable mistakes without facing unnecessary reputational costs.
- **Recognition:** Positive recognition may support constructive participation, but excessive focus on visible performance may increase pressure to manage impressions.
- **Inclusive participation:** Community structures should support meaningful contribution from students with different communication styles and levels of confidence.

- **Measurement:** Future research should assess genuine helping motivation and reputation-oriented motivation as separate constructs.
- **Community design:** Moderation practices and communication structures should reduce uncertainty about acceptable participation and encourage respectful interaction.

The broader implication is that healthy digital communities depend on more than increasing the amount of participation. They also require social conditions in which students feel able to contribute constructively without experiencing every online interaction as a lasting public judgment.

10. Conclusion

Digital reputation concerns represent an important social-psychological aspect of participation in online student communities. Students often communicate before audiences whose composition is broader and less predictable than in face-to-face settings. As a result, they may think carefully about how their contributions shape perceptions of competence, helpfulness, reliability, and social standing.

The present paper treats reputation concerns as a factor that may both encourage and discourage prosocial behavior. Moderate reputation awareness may support constructive participation when students believe that helpful behavior is socially valued. Excessive concern, by contrast, may increase perceived reputational risk and lead to self-censorship or withdrawal. This proposed nonlinear relationship remains illustrative and has not been established empirically.

The framework brings together digital self-presentation, context collapse, social identity, social norms, social evaluation, and prosocial behavior. It also emphasizes that visible helping behavior does not reveal motivation on its own. A student may offer support because of empathy, community identification, expectations of reciprocity, personal values, reputation-related considerations, or a combination of these factors.

Future empirical research should therefore combine psychological measures with behavioral indicators of online participation. Longitudinal designs would be especially useful for examining whether changes in reputation concern occur before changes in prosocial participation. Such research would help clarify how online student communities may encourage constructive interaction while reducing unnecessary reputational pressure.

15. Limitations

The most important limitation of the present study is the absence of original empirical data.

- The numerical values reported in the Results section are simulated only to illustrate a possible analytical pattern and should not be interpreted as findings from actual students.
- A second limitation is the multidimensional nature of digital reputation. Reputation may involve perceptions of competence, trustworthiness, helpfulness, sociability, reliability, and alignment with community expectations. A single measure may therefore fail to capture the full range of reputational concerns relevant to online student communities.
- A third limitation concerns the measurement of prosocial behavior. Online helping takes several forms, including information sharing, emotional support, peer assistance, and constructive intervention. Self-reported willingness to help may not always correspond closely with observed behavior.
- A fourth limitation relates to differences across digital platforms. Student discussion forums, social networking sites, messaging groups, and learning-management platforms vary in audience visibility, persistence, anonymity, moderation practices, and communication structure. These differences may influence both reputation concerns and prosocial participation.
- A fifth limitation concerns causal direction. Students who are already highly prosocial may gradually develop stronger reputations within their communities. This makes it difficult to determine whether reputation concerns influence prosocial behavior or whether repeated prosocial behavior increases reputational awareness.
- A sixth limitation involves cultural and institutional variation. Expectations surrounding public participation, disagreement, self-presentation, helping, and social evaluation may differ across student groups, institutions, and cultural settings. Findings from one community should therefore not be assumed to apply uniformly across all online student environments.

11. Future Work

Future research should develop and validate measures that clearly distinguish reputation awareness, reputation concern, reputational anxiety, and reputation-driven motivation. Separating these constructs would allow researchers to examine whether moderate and excessive levels of reputation concern are associated with different behavioral outcomes.

Longitudinal studies should examine whether reputation concerns are associated with later prosocial participation after accounting for baseline prosocial motivation, community identification, personality-related characteristics, and frequency of online activity. This design would provide a stronger basis for examining temporal relationships.

Experimental research could also manipulate perceived audience visibility through standardized online scenarios and assess students' willingness to provide assistance. Such designs would help determine whether students respond differently when they believe their contributions will be publicly connected with their identity.

Future studies should also examine the moderating role of community norms. Similar levels of reputation concern may produce different outcomes in supportive communities compared with environments characterized by stronger judgment or criticism.

Behavioral trace data may provide a useful complement to questionnaire measures. Researchers could examine observable helping behaviors such as responding to peer questions, sharing useful information, posting supportive comments, or intervening constructively, provided that appropriate privacy and ethical safeguards are followed.

Another important direction is the distinction between public and private prosocial behavior. Comparing visible community contributions with private peer assistance would help clarify whether reputation considerations influence the public expression of helping more strongly than the underlying willingness to provide support.

Finally, future research should examine whether community-level interventions encourage prosocial behavior without increasing reputational pressure. The aim should be to create online environments where students feel comfortable contributing constructively while retaining enough autonomy to participate, disagree, ask questions, and express uncertainty.

12. Declarations

Conflict of Interest

The author declares no conflict of interest related to the preparation or presentation of this manuscript.

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No external funding was received for the preparation of this simulation-based manuscript.

Ethics Statement

The present manuscript does not report original data collected from human participants. The quantitative values are simulated solely for conceptual and methodological illustration.

Any future empirical study involving university students should obtain appropriate institutional ethics approval where required. Such research should also include informed consent, privacy protection, confidentiality, and suitable data-management procedures.

Data Availability

No empirical participant dataset was generated or analyzed for this manuscript. The numerical values reported in the Results section are simulated illustrative values and should not be interpreted as observations from an actual participant sample.

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