



The bidirectional relationships between fear of missing out, problematic social media use and adolescents' well-being: A random intercept cross-lagged panel model

Yan-Yu Li ^{a,*}, Ina M. Koning ^b, Catrin Finkenauer ^c, Maartje Boer ^c, Regina J.J.M. van den Eijnden ^a

^a Department of Interdisciplinary Social Sciences, Utrecht University, the Netherlands

^b Clinical Child and Family Studies, Faculty of Behavioral and Movement Sciences, Vrije Universiteit Amsterdam, the Netherlands

^c National Institute for Public Health and the Environment, the Netherlands

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ABSTRACT

Problematic social media use (PSMU) is a societal problem, which impacts adolescents' well-being. Fear of missing out (FoMO) has been suggested as a core risk factor predicting both PSMU and adolescents' well-being. However, longitudinal research on the directionality of these relationships is scarce. The present study aims to fill this knowledge gap by testing the bidirectional relationships between FoMO, PSMU and adolescents' life satisfaction in the total sample, as well as for girls and boys separately. This study used four-waves annual longitudinal data collected from 2015 to 2019 among Dutch adolescents aged 11–15 years ($n = 1439$, $M_{age} = 12.5 \pm 0.60$, 45.9% girls). We applied random intercept cross-lagged panel model(s) to separate within-person level effects from between-person level effects. On the within-person level, findings suggested a unidirectional relationship whereby FoMO increased PSMU during mid-adolescence, but not vice versa. Moreover, low life satisfaction predicted an increase in FoMO during early adolescence. These findings underline that FoMO can be considered a risk factor of PSMU, and that low life satisfaction may be a risk factor for developing FoMO. These insights should be considered in intervention programs developed to effectively prevent unhealthy internet use in adolescents.

1. Introduction

Social media platforms such as Facebook, Instagram, and Snapchat have become an integral aspect of adolescents' daily lives worldwide (Oksa et al., 2019). However, concerns have been raised by families and schools when adolescents use social media problematically. Problematic social media use (PSMU) can be defined as uncontrollable, addictive-like social media use that persists over a longer period of time (van den Eijnden et al., 2016). This behavior always comes at the expense of important life domains for adolescents (Banyai et al., 2017; Paakkari et al., 2021; Shannon et al., 2022). There is a growing body of empirical evidence indicating that adolescents who have developed PSMU subsequently report lower levels of well-being (Boer, Stevens, Finkenauer, de Loone, & van den Eijnden, 2021; Chang et al., 2022; Li et al., 2018; Marentla et al., 2021; Raudsepp, 2019; van den Eijnden et al., 2021), for instance life satisfaction (Boer, Stevens, Finkenauer, & van den Eijnden,

2021; Marentla et al., 2021; van den Eijnden et al., 2018).

Meanwhile, scholars have suggested that fear of missing out (FoMO) may be a core risk factor that is associated with both higher levels of PSMU (Poniraventi et al., 2023; Gul et al., 2023; Çelik et al., 2022) and lower levels of life satisfaction among adolescents (Demir, 2021; Çelik et al., 2022). Yet, there is a scarcity of empirical studies investigating the interrelationships between FoMO, PSMU, and life satisfaction. The Differential Susceptibility to Media Effects Model (DSMEM; Valkenburg & Peter, 2013) provides a comprehensive theoretical framework elucidating that media use factors predict media response states (i.e., state variables originating from media use), which in turn predict media effects (i.e., cognitive, emotional, attitudinal, and behavioral effects of media on individuals), whereby it is assumed that preexisting individual and social context factors may predict media use, but may also influence the relationships between media use and media response states/media effects. When applying the DSMEM, PSMU can be considered a media use

* Corresponding author. Paderlaan 14, PO Box 80140, 3584 CH, Utrecht, the Netherlands.
E-mail address: y.li4@uu.nl (Y.-Y. Li).

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Relationships Discovering The Missing Links

**Ali Selamat,Ngoc Thanh
Nguyen,Habibollah Haron**



Relationships Discovering The Missing Links:

The Missing Link Edward Dyson, 2019-12-17 Edward Dyson's *The Missing Link* intricately weaves the narrative of scientific exploration and human curiosity through a blend of rich vivid prose and a contemplative exploration of themes surrounding evolution and the interconnectedness of all life. Set against the backdrop of the early 20th century, Dyson employs a modernist literary style creatively oscillating between philosophical musing and gripping storytelling, engaging with the contemporary debates of his time regarding natural selection and the origins of humanity. The book expertly navigates the tension between science and religion, creating a textured dialogue that resonates deeply with readers both then and now. Edward Dyson, an acclaimed Australian author known for his focus on the struggle between tradition and modernity, experienced firsthand the impact of the burgeoning scientific discourse surrounding Darwinism. His diverse background as a poet and journalist provided him with unique insights into both the literary form and the pressing social questions of his era, which manifest in the thematic depth of *The Missing Link*. Dyson's work often reflects his commitment to social justice and public enlightenment, adding layers of significance to his exploration of human origins. For readers intrigued by the convergence of science and literature, *The Missing Link* presents an essential reading experience. Dyson's nuanced examination of evolutionary theory, set against a rich narrative landscape, invites discussion on the fundamental questions of existence. This novel is not just for those who revel in scientific debate but for anyone who appreciates a well-crafted story rich in moral and intellectual inquiry.

Missing Link Jeffery Donaldson, 2015-04-01 We look for missing links in the sciences and humanities but the essential missing link metaphor is always in front of us. In *Missing Link*, Jeffery Donaldson unites literary criticism and evolutionary and cognitive science to show how metaphor has been with us since the beginning of time as a seed in the nature of things. With examples from centuries of poets, critics, philosophers, and scientists, he details how metaphor is a chemistry, an exchange of energies forming and dissolving, and an openness in the spaces between things. He considers the ways in which DNA learns how to liken things that have been how mutation makes errors and then tries them on and how evolution is hypothesis, nature's way of thinking more. The mind is a matrix of relations; neural synapses cascade into ever-changing pathways and patterns. Metaphor is the substance of things hoped for, the evidence of things not seen. It is the unbroken thread between matter and spirit. Whether offering analysis of a turn of phrase or chemical reaction, *Missing Link* presents a vision of literature that is also a vision of the cosmos and vice versa. It enters the debate between evolution and religion and challenges scientists, literary theorists, and religious advocates to rethink the relations between their disciplines.

Intelligent Information and Database Systems Ali Selamat, Ngoc Thanh Nguyen, Habibollah Haron, 2013-02-26 The two-volume set LNAI 7802 and LNAI 7803 constitutes the refereed proceedings of the 5th Asian Conference on Intelligent Information and Database Systems (ACIIDS 2013) held in Kuala Lumpur, Malaysia, in March 2013. The 108 revised papers presented were carefully reviewed and selected from numerous submissions. The papers included are grouped into

topical sections on innovations in intelligent computation and applications intelligent database systems intelligent information systems tools and applications intelligent recommender systems multiple modal approach to machine learning engineering knowledge and semantic systems computational biology and bioinformatics computational intelligence modeling and optimization techniques in information systems database systems and industrial systems intelligent supply chains applied data mining for semantic Web semantic Web and ontology integration of information systems and conceptual modeling in advanced database systems

Dad The Missing Link Darryl Husband, 2012-06-11 Broken generations are nothing new Many of us are the healed product of broken parenting Dysfunctional families are not a new phenomenon just a new word to describe an old issue Perched on the periphery of our ideals as believers has always been the pain of brokenness dysfunction and the God that calls chaos into order Between these pages you will hear the pains of broken people and the plans and possibilities of a better posterity We can make a difference

Fifty Years to Say I Love You TaJuana J. Davis, 2014-08-28 Focusing on what led to chaos resentment and hostility from abuse and neglect during my childhood guides my journey to a testimony of hope and healing During my search for healing I discovered its not the details in my story but the outcome from my journey that holds great substance Clarifying what this means to me has come after repeatedly processing the pain from past memories and attempting to make sense of the whats and whys I now realize its more critical to endure the pain of emotional surgery and rid myself of what polluted my heart rather than allowing my mind to be consumed with a past that lead to no positive outcome A simple approach Ive embraced is gracefully vomiting up the painful details that became my souls disease since the solution to being free of most diseases requires major surgery To be set free from the weight of my past I had to purge all destructive coping patterns leading to my disease and replace them with something else I had a choice remain stuck in these details at a great cost to my well being or remove what caused my souls disease to interfere with everything I desired to be relationally linked to my marriage children and even my worship with God Theres nothing pleasant about regurgitating however the effort of doing so brought me great freedom and forgiveness as the replacement of this weight led to a positively beautiful outcome You too can find hope Be still and know that I am God Psalm 46 10

Knowledge Discovery, Knowledge Engineering and Knowledge Management Ana Fred, Jan L. G. Dietz, Kecheng Liu, Joaquim Filipe, 2011-02-04 This book constitutes the thoroughly refereed post conference proceedings of the First International Joint Conference on Knowledge Discovery Knowledge Engineering and Knowledge Management IC3K 2009 held in Funchal Madeira Portugal in October 2009 This book includes revised and extended versions of a strict selection of the best papers presented at the conference 27 revised full papers together with 3 invited lectures were carefully reviewed and selected from 369 submissions According to the three covered conferences KDIR 2009 KEOD 2009 and KMIS 2009 the papers are organized in topical sections on on knowledge discovery and information retrieval knowledge engineering and ontology development and on knowledge management and information sharing

Finding the Missing Link GENERAL

ADEYINKA,2012-08-27 This is a unique book that is highly inspired by the Holy Spirit The book is meant to highlight and elaborate the crucial findings behind every successful relationship and marriage Possibly you have heard the aphorism You are whom you are attracted to Indeed the will and ability to reveal the hidden truths about ourselves in this times necessitates conscious effort and deliberate findings on our part regarding the crucial elements that influence our beingselements such as family identity love relationships religion and culture These should not be undermined in our efforts to find the right person for us This book successfully complements psychological researches with scriptural verses in teaching how to know the mind of God in these important findings of life partner *Discovering the Missing Goal: Spiritual Development* Debra Dianna Thomas Ph.D.,2021-06-07 How many of us have an open treasure chest of gold our spiritual growth waiting to be claimed on a deserted beach Spiritual growth is the process of becoming more and more like Jesus Christ When we place our faith in Jesus the Holy Spirit begins the process of making us more like Him Spiritual growth is perhaps described in 2 Peter 1 3 8 which tells us that by God s power we have everything need to live lives of godliness which is the goal of spiritual growth What we need comes through our knowledge of Him which is the key to obtaining everything we need Our knowledge of Him comes from the Word given to us for our edification and growth There are two lists in Galatians 5 19 23 Verses 19 21 list the acts of the flesh These are the things that identify our lives before we came to Christ for salvation The acts of the flesh are the activities we are to confess repent of and with God s help overcome As we experience spiritual growth fewer and fewer of the acts of the flesh will be evident in our lives The second list is the fruit of the Spirit verses 22 23 These are things that should characterize our lives now that we have experienced salvation in Jesus Christ Spiritual growth is identified by the fruit of the Spirit becoming increasingly evident in a believer s life When the transformation of salvation takes place spiritual growth begins The Holy Spirit indwells us John 14 16 17 We are new creatures in Christ 2 Corinthians 5 17 The old sinful nature begins to give away to the new Christ like nature Romans 6 7 Spiritual growth is a lifelong process that depends on our study and application of God s Word 2 Timothy 3 16 17 and our walk in the Spirit Galatians 5 16 26 As we seek spiritual growth we should pray to God and ask for wisdom concerning the areas He desires us to grow We can ask God to increase our faith and knowledge of Him God desires us to grow spiritually and He has given us all we need to experience spiritual growth With the Holy Spirit s help we can overcome sin and steadily become more like our Savior the Lord Jesus Christ How do I get there *Discovery Science* Klaus P. Jantke,Ayumi Shinohara,2003-06-30 These are the conference proceedings of the 4th International Conference on Discovery Science DS 2001 Although discovery is naturally ubiquitous in science and scientific discovery itself has been subject to scientific investigation for centuries the term Discovery Science is comparably new It came up in connection with the Japanese Discovery Science project of Arikawa s invited lecture on The Discovery Science Project in Japan in the present volume some time during the last few years Setsuo Arikawa is the father in spirit of the Discovery Science conference series He led the

above mentioned project and he is currently serving as the chairman of the international steering committee for the Discovery Science conference series The other members of this board are currently in alphabetical order Klaus P Jantke Masahiko Sato Ayumi Shinohara Carl H Smith and Thomas Zeugmann Colleagues and friends from all over the world took the opportunity of me ing for this conference to celebrate Arikawa s 60th birthday and to pay tribute to his manifold contributions to science in general and to Learning Theory and Discovery Science in particular Algorithmic Learning Theory ALT for short is another conference series initiated by Setsuo Arikawa in Japan in 1990 In 1994 it amalgamated with the conference series on Analogical and Inductive Inference AII when ALT was held outside of Japan for the first time

Between the Empires Patrick Olivelle,2006-07-13 This volume is the result of an international conference organized by the South Asia Institute at the University of Texas Patrick Olivelle has collected and edited the best papers to emerge from the conference Part I of the book looks at what can be construed from archeological evidence Part II concerns itself with the textual evidence for the period Taken together these essays offer an unprecedented look at Indian culture and society in this distant epoch

Missing Links Robert Allen Martin,2004 This book introduces newcomers to the field of evolutionary science with an accessible discussion of basic scientific practices rock and fossil dating techniques and schools of classification

Dynamical Systems with Applications using Python Stephen Lynch,2018-10-09 This textbook provides a broad introduction to continuous and discrete dynamical systems With its hands on approach the text leads the reader from basic theory to recently published research material in nonlinear ordinary differential equations nonlinear optics multifractals neural networks and binary oscillator computing Dynamical Systems with Applications Using Python takes advantage of Python s extensive visualization simulation and algorithmic tools to study those topics in nonlinear dynamical systems through numerical algorithms and generated diagrams After a tutorial introduction to Python the first part of the book deals with continuous systems using differential equations including both ordinary and delay differential equations The second part of the book deals with discrete dynamical systems and progresses to the study of both continuous and discrete systems in contexts like chaos control and synchronization neural networks and binary oscillator computing These later sections are useful reference material for undergraduate student projects The book is rounded off with example coursework to challenge students programming abilities and Python based exam questions This book will appeal to advanced undergraduate and graduate students applied mathematicians engineers and researchers in a range of disciplines such as biology chemistry computing economics and physics Since it provides a survey of dynamical systems a familiarity with linear algebra real and complex analysis calculus and ordinary differential equations is necessary and knowledge of a programming language like C or Java is beneficial but not essential

Machine Learning and Knowledge Discovery in Databases

Michelangelo Ceci,Jaakko Hollmén,Ljupčo Todorovski,Celine Vens,Sašo Džeroski,2017-12-29 The three volume proceedings LNAI 10534 10536 constitutes the refereed proceedings of the European Conference on Machine Learning and Knowledge

Discovery in Databases ECML PKDD 2017 held in Skopje Macedonia in September 2017 The total of 101 regular papers presented in part I and part II was carefully reviewed and selected from 364 submissions there are 47 papers in the applied data science nectar and demo track The contributions were organized in topical sections named as follows Part I anomaly detection computer vision ensembles and meta learning feature selection and extraction kernel methods learning and optimization matrix and tensor factorization networks and graphs neural networks and deep learning Part II pattern and sequence mining privacy and security probabilistic models and methods recommendation regression reinforcement learning subgroup discovery time series and streams transfer and multi task learning unsupervised and semisupervised learning Part III applied data science track nectar track and demo track

Advances in Knowledge Discovery and Data Mining Thanaruk Theeramunkong, Boonserm Kijirikul, Nick Cercone, Tu-Bao Ho, 2009-04-20 This book constitutes the refereed proceedings of the 13th Pacific Asia Conference on Knowledge Discovery and Data Mining PAKDD 2009 held in Bangkok Thailand in April 2009 The 39 revised full papers and 73 revised short papers presented together with 3 keynote talks were carefully reviewed and selected from 338 submissions The papers present new ideas original research results and practical development experiences from all KDD related areas including data mining data warehousing machine learning databases statistics knowledge acquisition automatic scientific discovery data visualization causal induction and knowledge based systems

Pathway Analysis for Drug Discovery Anton Yuryev, 2008-09-17 This book introduces drug researchers to the novel computational approaches of pathway analysis and explains the existing applications that can save time and money in the drug discovery process It covers traditional computational methods and software for pathway analysis microarray proteomics and metabolomics It explains pathway reconstruction of diseases and toxic states pathway analysis in various phases dynamic modeling of drug responses and more This is a core resource for drug discovery and pharmaceutical industry researchers chemists and biologists and for professionals in related fields

Resource Discovery Zoé Lacroix, Edna Ruckhaus, Maria-Esther Vidal, 2013-11-21 This book constitutes the thoroughly refereed conference proceedings of the 5th International Workshop on Resource Discovery RED 2010 co located with the 9th Extended Semantic Web Conference held in Heraklion Greece in May 2012 The 7 revised full papers presented were carefully reviewed and selected from 9 submissions They deal with various issues related to resource discovery

Advances in Knowledge Discovery and Data Mining Xintao Wu, Myra Spiliopoulou, Can Wang, Vipin Kumar, Longbing Cao, Yanqiu Wu, Yu Yao, Zhangkai Wu, 2025-07-19 The five volume set LNAI 158710 15874 constitutes the proceedings of the 29th Pacific Asia Conference on Knowledge Discovery and Data Mining PAKDD 2025 held in Sydney New South Wales Australia during June 10 13 2025 The conference received a total of 557 submissions to the main track 35 submissions to the survey track and 104 submission to the special track on LLMs Of these 134 papers have been accepted for the main track 10 for the survey track and 24 for the LLM track 68 papers have been transferred to the DSFA special session The papers have been organized in topical sections as follows Part I

Anomaly Detection Business Data Analysis Clustering Continual Learning Contrastive Learning Data Processing for Learning Part II Fairness and Interpretability Federated Learning Graph Mining and GNN Learning on Scientific Data Part III Machine Learning Multi modality OOD and Optimization Recommender Systems Representation Learning and Generative AI Part IV Security and Privacy Temporal Learning Survey Part V LLM Fine tuning and Prompt Engineering Fairness and Interpretability of LLMs LLM Application OOD and Optimization of LLMs **The Discovery of Mind** Ardi

Roelofs,2024-10-18 This book presents a concise history of the scientific discovery of the mind Although people have speculated about the nature and functioning of their minds for thousands of years it was only about 200 years ago that they replaced the philosophical armchair with the laboratory and began to investigate the mind scientifically Surprisingly the work of one of the founders of scientific psychology Wilhelm Wundt 1832 1920 has been largely forgotten despite its relevance to current psychology Taking a fresh look at history this book discusses important empirical and theoretical discoveries made in the few decades before and in the 150 years after the publication of Wundt s groundbreaking monograph Grundz ge der physiologischen Psychologie in 1874 Crucial evidence from past behavioral and patient studies to recent neuroimaging is synthesized to support a thought provoking account of key aspects of the human mind ECAI 2012 C. Bessiere,2012-08-15 Artificial intelligence AI plays a vital part in the continued development of computer science and informatics The AI applications employed in fields such as medicine economics linguistics philosophy psychology and logical analysis not forgetting industry are now indispensable for the effective functioning of a multitude of systems This book presents the papers from the 20th biennial European Conference on Artificial Intelligence ECAI 2012 held in Montpellier France in August 2012 The ECAI conference remains Europe s principal opportunity for researchers and practitioners of Artificial Intelligence to gather and to discuss the latest trends and challenges in all subfields of AI as well as to demonstrate innovative applications and uses of advanced AI technology ECAI 2012 featured four keynote speakers an extensive workshop program seven invited tutorials and the new Frontiers of Artificial Intelligence track in which six invited speakers delivered perspective talks on particularly interesting new research results directions and trends in Artificial Intelligence or in one of its related fields The proceedings of PAIS 2012 and the System Demonstrations Track are also included in this volume which will be of interest to all those wishing to keep abreast of the latest developments in the field of AI

Handbook of Research on Instructional Systems and Technology Kidd, Terry T.,Song, Holim,2008-10-31 This book provides information on different styles of instructional design methodologies tips and strategies on how to use technology to facilitate active learning and techniques to help faculty and researchers develop online instructional and teaching materials It enables libraries to provide a foundational reference for researchers educators administrators and others in the context of instructional systems and technology Provided by publisher

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