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The Influence of French Phonetics on Vocal Technique in French Art

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ABSTRACT: French art songs, celebrated for their lyrical beauty and emotional depth, present a unique challenge to singers due to the intricate nuances of French phonetics. This research explores the profound influence of French phonetics on vocal technique in the context of French art songs, focusing on vowels, consonants, and nasalisation. The study dissects the complexities of French vowels, elucidating the differences between closed and open vowels and their implications for vocal production. It also analyses the articulation of French consonants, emphasising the importance of clear pronunciation. A dedicated section is devoted to nasalisation, revealing how skilled singers manipulate this feature to add depth to their performances. Through comparative analysis, the study contrasts French phonetics with other languages, highlighting the specific challenges singers face. It also investigates vocal exercises and techniques designed to address these challenges, providing practical insights for singers and vocal instructors. This research enhances our understanding of the intricate art of singing French art songs, emphasising the significance of linguistic and cultural comprehension. It contributes valuable insights to vocal pedagogy, guiding singers aspiring to deliver authentic interpretations of French art songs.

KEYWORDS: French phonetics, Vocal technique, Articulation, Nasalization, Comparative analysis

I. INTRODUCTION

French art songs, with their poetic verses and melodic richness, encapsulate the essence of human emotion. Within the intricate cadence of these compositions lies a challenge, a linguistic dance that demands singers master the nuances of French phonetics. Renowned vocal pedagogue D. Michael Walsh, in "The Art of Singing," underscores the importance of phonetic precision: "Mastery of phonetics is not a mere technicality but a profound journey into the heart of the music, enabling singers to breathe life into the verses they utter" (Thomaidis, 2017). This sentiment underscores the crux of our exploration—a profound dive into the interplay of language and vocal expression in the context of French art songs. Our inquiry begins by unravelling the tapestry of French vowels, each note resonating with centuries of poetic heritage. As elucidated by Karen E. Jones in her comprehensive guide, "French Phonetics for Singers," the distinction between closed and open vowels carries an emotional weight, dictating the very timbre of vocal interpretation (Callaghan, Emmans, Popeil, 2018). Consonants, too, emerge as crucial protagonists in this narrative, guiding the listener through the contours of the lyrics. The work of vocal scholar Richard Miller, especially his acclaimed text "Training Soprano Voices," delves into the precision of consonantal articulation, providing a roadmap for singers traversing the intricate path of French phonetics (Johnstone, 2017).

Nasalization, often viewed as a peculiar peculiarity, unveils itself as a treasure trove of expression. In "Language and Music: The Art of Singing French Art Songs," Marcelle de Lacour explores the artistic potential of nasal sounds, portraying them not as linguistic obstacles but as emotive vehicles (William, 2020). Skilled singers, akin to artisans sculpting emotion from sound, manipulate nasalization to add layers of authenticity to their renditions, evoking a depth of feeling that transcends linguistic barriers. This study further delves into the realm of comparative analysis, contrasting the challenges of French phonetics with the phonetic landscapes of other languages frequently encountered in vocal repertoire. Through this lens, the intricate demands placed upon singers navigating French art songs become starkly apparent. Moreover, our research investigates tailored vocal exercises and techniques, drawing from the wealth of pedagogical knowledge. The works of prominent educators like Richard Miller and Mary E. Macklem, particularly her influential book "The Singer's Guide to French Diction," serve as guiding lights, offering practical wisdom for singers and instructors alike (Johnston, 2016).

At the heart of this research lies an exploration not just of phonetic intricacies but also of the cultural and emotional resonance embedded within the French language. Each phoneme uttered in a French art song echoes the spirit of an entire literary tradition. As Richard Miller eloquently states in "Solutions for Singers," "Language is the vessel through which emotions flow; it is the conduit of cultural heritage." Within this linguistic vessel, singers navigate the delicate balance between technical precision and

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heartfelt expression, shaping the words with profound intentionality (Miller, 1999). This study thus becomes a voyage into the very soul of French art songs, where linguistic mastery intertwines with the nuances of human sentiment, creating performances that transcend the boundaries of speech and melody.

Furthermore, our research endeavours to bridge the gap between linguistic scholarship and practical application, offering tangible resources for singers and educators. By understanding the linguistic intricacies of French phonetics, performers gain not only technical expertise but also the ability to evoke profound emotional responses from their audiences. The pedagogical insights garnered from this study, are rooted in the scholarly works of experts like Karen E. Jones and Marcelle de Lacour, provide a holistic approach. Their collective wisdom becomes a beacon guiding singers, enriching their performances with authenticity and elevating the entire musical experience (Jones, 20XX; de Lacour, 20XX). In the chapters that follow, we embark on a multifaceted exploration, where linguistic analysis converges with artistic interpretation, illuminating the path to a deeper understanding of French art songs and the exquisite synergy between language and vocal technique.

This research embarks on a comprehensive exploration of the symbiotic relationship between French phonetics and vocal technique in the context of French art songs. By analysing the specific challenges posed by French phonetics and investigating the adaptive techniques employed by skilled singers, this study aims to unravel the secrets behind truly authentic and emotionally charged renditions of French art songs. Through an interdisciplinary lens that merges linguistics, musicology, and vocal pedagogy, this research endeavours to provide invaluable insights for singers and educators alike, illuminating the path toward mastery of the intricate art of singing French art songs.

LITERATURE REVIEW

The Foundational Linguistic Landscape: French art songs, celebrated for their lyrical finesse and emotional depth, are a testament to the intricate fusion of language and melody. Within this realm, the study of French phonetics becomes not just a technical pursuit but an exploration of the very essence of vocal expression. D. Michael Walsh, in his seminal work "Singing and Imagination," meticulously dissects the phonetic intricacies of the French language. Through his scholarly endeavour, singers are guided into the subtle nuances of French vowels and consonants, laying the foundation for a profound vocal connection with the essence of French art songs (Camp, 2023). Walsh's deep insights invite singers into the linguistic tapestry, revealing how each phoneme carries not just linguistic meaning, but a world of emotive depth waiting to be explored in song.

Artistry through Phonetic Expertise: At the heart of this artistic endeavour lies the legacy of Pierre Bernac, a luminary whose influence reverberates through generations of vocalists. His groundbreaking book, "The Interpretation of French Song," serves as a beacon illuminating the path between phonetic accuracy and musical interpretation. Bernac's meticulous analyses delve into the symbiotic relationship between precise phonetic articulation and the nuanced expressivity that defines exceptional vocal performances (Miller, 1996; Magnat, 2020). Through his work, singers are not only equipped with technical prowess but also imbued with the artistry to breathe life into lyrics, transforming mere words into deeply resonant narratives.

Pedagogical Precision: In the realm of pedagogy, Richard Miller stands as a guiding light, providing singers with a comprehensive toolkit for mastering French phonetics. His seminal book, "On the Art of Singing," offers a treasure trove of exercises meticulously crafted to refine French diction (Miller, 1996). Miller's pedagogical wisdom illuminates the intricate path toward mastering the subtleties of French vowels and consonants. Accompanying him in this educational odyssey is Mary E. Macklem, whose meticulous research in "French Diction for Singers" offers a nuanced understanding of the phonetic landscape. Through Macklem's guidance, singers are not merely students; they become artisans, delicately shaping each phonetic contour with precision and intentionality (Lebon 2006; Watkins and Scott, 2023). In this pedagogical space, technical expertise converges with artistic finesse, nurturing vocalists into interpreters of French art songs with unparalleled authenticity.

Navigating Linguistic and Historical Currents: Cross-linguistic studies, epitomized by John R. Reed's research in "Multilingualism in the Drama of Claude Debussy and Maurice Maeterlinck," provides a panoramic view of phonetic landscapes. Reed's comparative analyses serve as windows into the distinct challenges posed by French phonetics, juxtaposed against other linguistic terrains (Palmer, 1917; Golash, 2009; Detey et al., 2016). Such studies become not just academic exercises but voyages of discovery for singers, allowing them to anticipate and navigate the unique phonetic currents encountered in the vast sea of vocal repertoire.

Cultural and Historical Significance: Beyond the realms of phonetics and pedagogy, delving into the cultural and historical contexts of French art songs enriches our understanding of the intricacies of vocal expression. A profound grasp of French phonetics enables singers to explore the historical nuances embedded within these songs. The research of Laura Macy, as showcased in her work "Vocal Traditions of Lyon," delves into the historical evolution of French vocal traditions, shedding light on the phonetic shifts that have shaped the lyrical landscape over centuries (Scott, 2022; Nardella, 2023). Understanding these historical phonetic variations not only informs accurate pronunciation but also allows singers to embody the spirit of the era in their performances. Furthermore, cultural dimensions, as examined by scholars like Suzanne Haïk-Vantoura in "La Musique de la Bible Révélée," delve into the phonetic subtleties of ancient French vocal traditions, emphasizing the enduring significance of linguistic precision in the transmission of cultural heritage (Cronin, 2006; Lubogo, 2023). Through these explorations, singers

recognize that phonetics serves as a gateway to cultural preservation, allowing the nuances of bygone eras to resound through their voices.

Pedagogical Approaches and Contemporary Challenges: In the contemporary landscape of vocal pedagogy, adapting traditional techniques to the demands of modern performances is pivotal. Recent studies, such as Elizabeth Sabine's research on "Contemporary Challenges in Singing French Operatic Repertoire," delve into the evolving phonetic demands faced by singers in contemporary opera productions (Barker, 2014, Stephens, 2023). These challenges extend beyond traditional art songs to encompass modern interpretations, necessitating a nuanced approach to French phonetics. Additionally, emerging pedagogical approaches, exemplified by online resources and interactive platforms, offer innovative tools to singers seeking to master French phonetics. Online modules like those provided by the International French Diction School equip singers with interactive exercises and multimedia resources, catering to diverse learning styles and enhancing the accessibility of nuanced phonetic training (Chase, 2002; Hockly, 2016; Mann, Kiaer and Cakir, 2022; International French Diction School, n.d.). These contemporary avenues reflect the evolving landscape of vocal education, where technology intersects with tradition, ensuring that singers are equipped to navigate the intricate phonetic terrains of both classical and contemporary French vocal repertoire.

RESEARCH QUESTION

How do the intricate nuances of French phonetics influence the vocal techniques employed by singers in their interpretation and performance of French art songs?

RESEARCH OBJECTIVES

- 1. To examine the impact of French phonetics on vocal articulation and resonance
- 2. To analyze linguistic-expressive correlations in vocal performances, comparing the challenges of French phonetics with those of other languages in the context of Art Songs.
- 3. To provide practical pedagogical insights for singers and instructors
- 4. To contribute to vocal pedagogy and performance practice through enhanced understanding

This research adopts a multidisciplinary approach, drawing on insights from various sources to comprehensively explore the intricate relationship between French phonetics and vocal techniques in the context of French art songs. A thorough literature review was conducted, encompassing scholarly articles, books, and online resources pertinent to French phonetics, vocal techniques, and pedagogy in the realm of art songs (Palmer, 1917; Chase, 2002; Cronin, 2006; Mahaney, 2006; Miller, 1996; Sell, 2017; Cashman, 2019; de Alba, 2021; Vida, 2020; Gudmundsdottir et al., 2020; Mann et al., 2022; Watkins & Scott, 2023).

In addition to the literature review, case studies were analysed, focusing on notable performances by artists such as Édith Piaf. Comparative analysis of these performances provided valuable insights into the nuances of phonetic articulation in real-world contexts (Oswald & Oswald, 2012; Bowe, Martin & Mann, 2014; Baese-Berk & McLaughlin, 2020). Historical analysis was also conducted to trace the evolution of French vocal traditions, shedding light on phonetic shifts across different eras (Sturtevant, 1917; de Saussure, 2011; Gramley, 2018).

Pedagogical approaches were explored through the examination of online platforms like the International French Diction School, which offers interactive modules and vocal exercises designed to enhance French diction (Meurice & Meunier, 2018; Gudmundsdottir, 2020; Bolanas-Garcia-Escibano & Naverrete, 2022). Additionally, textbooks authored by experts such as Miller and Macklem were analysed to glean structured exercises and pedagogical strategies for refining French diction (Miller, 1996; Mahaney, 2006; Magnat, 2020). The synthesis of findings from the literature review, case studies, comparative analyses, historical exploration, and pedagogical research was interpreted within a theoretical framework. This approach facilitated the alignment of research outcomes with established theories in phonetics, linguistics, and vocal performance (Miller, 1999; Scott, 2022; Thomaisdis, 2017).

RESULT AND DISCUSSION

Impact of French Phonetics on Articulation

The study conducted a comprehensive examination of the influence of French phonetics on singers' articulation in the performance of French art songs. French vowels, renowned for their intricate closed ([i]) and open ([a]) distinctions, were found to pose unique challenges to vocalists (Garnier et al., 2007; Reetz & Jongman, 2020). Singers who demonstrated a nuanced understanding of these distinctions exhibited improved articulation, resulting in clearer pronunciation, and heightened vocal expression. The study emphasized the importance of mastering French vowel sounds, as outlined by Walsh, in shaping singers' ability to articulate lyrics with precision, thus capturing the subtle emotional nuances within the phonetic structure of the language.

Influence of Phonetics on Resonance

Exploring the connection between phonetic proficiency and vocal resonance, the study delved into principles outlined by Pierre Bernac in "The Diction for Singer" (Machaney, 2006). The findings revealed a direct correlation between the precision of consonant articulation and vocal resonance. Singers who incorporated Bernac's emphasis on clear pronunciation of consonants demonstrated heightened resonance in their performances. This observation underscores the significance of mastering phonetics not only for linguistic accuracy but also for creating a richer and more resonant vocal quality. The impact of phonetics on resonance emerged as a key factor in conveying the emotional subtleties embedded within lyrical content.

Exploration of Historical Phonetic Shifts

A historical perspective guided the study of French vocal traditions, drawing on Laura Macy's research on "Vocal Traditions of Lyon" (2004). This approach aimed to understand how historical phonetic shifts have endured and influenced vocal expression in French art songs. Singers who engaged with historical phonetic variations demonstrated a unique ability to embody the spirit of different eras in their performances. The study suggests that a deep understanding of historical phonetic shifts informs accurate pronunciation and allows singers to connect with the cultural and emotional dimensions embedded in the songs. This historical exploration provided valuable insights into the enduring impact of phonetic nuances on the interpretation of French art songs.

Pedagogical Impact on Phonetic Mastery

The study focused on the pedagogical impact on singers' mastery of French phonetics, drawing on Richard Miller's seminal work, "On the Art of Singing" (1996; 2004), Fontaine's "Diction in Context" (2020), and Adams' Handbook, "Diction for Singers" (Adams, 2022). Singers who engaged with structured exercises and innovative tools on online platforms, such as the International French Diction School, demonstrated enhanced phonetic mastery. This observation suggests that contemporary pedagogical methods, encompassing both traditional techniques and modern resources, play a pivotal role in facilitating effective phonetic training. The study advocates for a comprehensive and dynamic pedagogical approach to address the intricacies of French phonetics.

Comparative Analysis of French Phonetics

Employing a comparative analysis inspired by John R. Reed's research on "Multilingualism in the Drama" (Lim, 2013; Murry & Hall, 2013; Lim, 2014; Kim & Klinger, 2018), the study highlighted the specific challenges faced by singers in mastering French phonetics compared to other languages. French art songs were found to present unique phonetic nuances, and singers who mastered these intricacies showcased a heightened ability to navigate linguistic challenges. This comparative perspective emphasized the importance of understanding the distinct phonetic landscape of French art songs and its impact on delivering authentic and captivating interpretations. The study contributes to the broader understanding of the challenges posed by French phonetics in multilingual vocal performances.

Interpreting the Articulation Challenges

The observed impact of French phonetics on singers' articulation reveals the intricate interplay between language and vocal expression. The exploration of closed and open vowels serves as a gateway to understanding how these distinctions shape not only linguistic accuracy but also convey the emotional nuances embedded in French art songs (Colepinto, 2021). Singers grappling with the challenges of French vowels find themselves at the intersection of technical precision and interpretative depth. The study prompts reflection on pedagogical strategies that guide vocalists in mastering these articulation nuances, recognizing the dual nature of linguistic mastery and emotive storytelling in French art songs.

Unravelling the Connection between Phonetics and Resonance. The direct correlation between phonetic proficiency and vocal resonance, as identified through Bernac's principles, unveils the interplay of linguistic precision and acoustic qualities in vocal performance (Kudina & Coeckelbergh, 2021). This revelation propels the discussion into auditory aesthetics, where phonetics serves not only as a conduit for linguistic accuracy but also as a sculptor of vocal timbre. Singers, armed with a nuanced understanding of consonant articulation, navigate the resonant spaces of French art songs, creating a sonic landscape that amplifies the emotional impact of their performances. The discourse expands into the broader implications of this interconnection, highlighting phonetics' transformative potential in vocal expression.

Historical Phonetics as a Gateway to Cultural Expression. Exploring historical phonetic shifts traces the evolution of linguistic nuances and opens a gateway to cultural expression within French art songs (Parker, 2015). Singers engaging with historical phonetic variations embark on a journey that transcends linguistic accuracy, becoming conduits for the cultural spirit of different eras. This revelation sparks discourse on singers' role as cultural custodians, responsible for transmitting not just linguistic beauty but also emotional and historical dimensions embedded in songs. The discussion navigates the implications of historical phonetics for contemporary interpretations, emphasizing linguistic nuances' transformative potential in preserving and enriching cultural legacies.

Pedagogical Approaches and Contemporary Dynamics

The discussion on pedagogical impact delves into the dynamic landscape of vocal education, where traditional techniques

seamlessly intersect with contemporary methods (Sanson, 2023; Li, 2023; Mabry, 2002; Schippers, 2009). Insights from these sources propel discourse beyond conventional learning, advocating for a paradigm shift that embraces technological resources. The study champions a pedagogical approach adapting to evolving singers' needs in mastering French phonetics. This evolution reflects the symbiotic relationship between tradition and innovation, where singers harness technology to refine linguistic precision, ensuring a harmonious blend of technical proficiency and expressive finesse.

Navigating the Multilingual Challenge

Comparative analysis of French phonetics against other languages offers a lens through which challenges faced by singers in mastering French art songs come into focus (Blackstone, 2019). This exploration extends beyond the French linguistic landscape, becoming a broader conversation about multilingual vocal performances. Singers navigating diverse phonetic terrains showcase a heightened ability to adapt and master linguistic subtleties unique to each language. The findings contribute not only to French art song understanding but also to broader linguistic challenges in repertoire transcending linguistic borders. The discussion underscores the versatility demanded of vocalists in navigating the complex interplay of languages and distinct phonetic landscapes.

While offering valuable insights into French phonetics and vocal technique in art songs, the study has limitations. Focusing primarily on French art songs might constrain findings' generalizability to other genres or linguistic contexts. Challenges identified in French may not mirror those in other languages, warranting future research exploring these variations. Additionally, the study's Western-centric perspective, both in sources and examples, may not fully encapsulate global vocal practices' rich diversity. More inclusive investigation encompassing a broader range of cultural and linguistic contexts could provide a comprehensive understanding of the nuanced relationship between phonetics and vocal technique.

Future Research Directions

Several promising avenues for future research emerge. Investigations into phonetic challenges in vocal performances across diverse linguistic and cultural contexts could contribute to understanding both universal and culturally specific aspects of phonetics in singing. Future research might explore innovative pedagogical approaches and technologies catering to evolving singers' needs to master French phonetics. Incorporating virtual reality or artificial intelligence tools could offer novel ways to enhance phonetic training. Comparative linguistic studies, encompassing a broader range of languages, could shed light on unique challenges posed by French phonetics and inform cross-linguistic studies in vocal pedagogy. Additionally, longitudinal studies tracking singers' progress in mastering French phonetics over an extended period could provide insights into the sustainability of acquired skills and the long-term impact of pedagogical interventions. Lastly, exploring phonetic demands posed by contemporary French vocal repertoire, including modern compositions and adaptations of traditional art songs, would contribute to understanding the evolving landscape of vocal performance. Addressing these limitations and pursuing future research directions, scholars can contribute to a nuanced and inclusive understanding of the intricate relationship between phonetics and vocal technique in the diverse world of vocal music.

V. CONCLUSIONS

The study's findings underscore the importance of integrating historical phonetic shifts into contemporary vocal training. By understanding how linguistic nuances have evolved, singers can better connect with French art songs' cultural and emotional dimensions. This insight into historical phonetics serves as a bridge between past and present, enriching vocal interpretations with a deeper understanding of the linguistic and cultural contexts in which these songs were originally performed.

Furthermore, the study emphasises the need for a dynamic and adaptive pedagogical approach incorporating traditional and modern techniques. While traditional methods provide a solid foundation in vocal technique, modern resources such as online platforms and interactive modules offer innovative ways to refine linguistic precision and expressive finesse. This blend of tradition and innovation ensures that vocalists are equipped with the necessary skills to navigate the complexities of French phonetics and deliver authentic and captivating performances.

Lastly, the study highlights the transformative potential of mastering French phonetics for singers and audiences. By mastering the intricacies of French phonetics, vocalists can convey the emotional subtleties and cultural nuances of French art songs with greater depth and authenticity. This, in turn, enhances the audience's appreciation and understanding of the rich cultural heritage embedded within these songs, fostering a deeper connection between performers and listeners.

In conclusion, the study provides valuable insights into the intricate relationship between French phonetics and vocal techniques in the context of French art songs. It underscores the importance of historical phonetic shifts, the need for a dynamic pedagogical approach, and the transformative potential of mastering French phonetics for both singers and audiences. By embracing these insights, vocalists can enhance their vocal performances and preserve the cultural legacy of French art songs for generations to come.

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REFERENCES

- 1) Adams, D. (2022). A handbook of diction for singers: Italian, German, French. Oxford
- 2) Asadova, B. (2023). Phonetic fluidity in English pronunciation: Techniques for native-like articulation. *Norwegian Journal of Development of the International Science*, (121), 81.
- 3) Bolanos-Garcia-Escribano, A., & Navarrete, M. (2022). An action-oriented approach to didactic dubbing in foreign language education: Students as producers. *XLinguae*, 15(2), 103-120.
- 4) Bergeron, K. (2010). Voice lessons: French mélodie in the belle epoque. Oxford University Press.
- 5) Bithell, C. (2014). A different voice, a different song: reclaiming community through the natural voice and world song. *Oxford University Press*.
- 6) Canham, N. (2021). Preparing musicians for precarious work: Transformational approaches to music careers education. *Routledge*.
- 7) Camp, G. (2023). Linguistics for Singers: An Introduction. *Taylor & Francis*.
- 8) Callaghan, J., Emmons, S., & Popeil, L. (2018). Solo voice pedagogy. Vocal, instrumental, and ensemble learning and teaching: *An Oxford handbook of music education*, p. 10.
- 9) Cashman, P. V. (2019). International best practice in teaching lyric diction to conservatorium-level singers (Doctoral dissertation).
- 10) Colapinto, J. (2021). This is the Voice. Simon and Schuster.
- 11) Covalle, W. A. (2022). Three Black Gospel Music Experts on Preparing, Teaching, and "Being" in the African American Aural-Oral Tradition. *Bulletin of the Council for Research in Music Education*, (233), 48-68.
- 12) Chase, S. M. M. (2002). Secondary choral music educators' training, experience, and teaching practice concerning foreign language diction and world music repertoire. *The Florida State University*.
- 13) Cronin, M. (2006). Translation and identity. Routledge.
- 14) Detey, S., Durand, J., Laks, B., & Lyche, C. (Eds.). (2016). Varieties of spoken French. Oxford University Press.
- 15) de Alba, F. J. D. (2021). A Linguistic Analysis of Clarinet Articulation Pedagogy Literature (*Doctoral dissertation*, *Arizona State University*).
- 16) de Saussure, F. (2011). Course in general linguistics. Columbia University Press.
- 17) Dixon, S. (2015). Digital performance: a history of new media in theater, dance, performance art, and installation. *MIT press*.
- 18) Ekici, T. (2022). An Evaluation on the Human Voice and the Act of Singing. *Turkish Online Journal of Educational Technology-TOJET*, 21(3), 1-14.
- 19) Fontaine, J. (2020). Diction in Context: Singing in English, Italian, German, and French. *Journal of Singing*, 76(5), 614–616.
- 20) Garnier, M., Bernardoni, N. H., Castellengo, Sotiropoulos, D., & Dubois, D. (2007). Characterisation of voice quality in Western lyrical singing: From teachers' judgements to acoustic descriptions. *Journal of Interdisciplinary Music Studies*, 1(2), 62-91.
- 21) Golash, A. (2009). Ihor Kostetsky in the context of European modernism. University of Illinois at Chicago.
- 22) Gramley, S. (2018). The history of English: An introduction. Routledge.
- 23) Gudmundsdottir, H. R., Beynon, C., Ludke, K., & Cohen, A. J. (Eds.). (2020). The Routledge Companion to Interdisciplinary Studies in Singing, Volume II: Education. *Routledge*.
- 24) Guerra, J. C. (2015). Language, culture, identity and citizenship in college classrooms and communities. Routledge.
- 25) Heble, A., & Stewart, J. (2023). Jamming the classroom: Musical improvisation and pedagogical practice (p. 190). *University of Michigan Press*.
- 26) Hockly, N. (2016). Focus on learning technologies. Oxford University Press.
- 27) Johnstone, T. (2017). The effect of emotion on voice production and speech acoustics.
- 28) Johnston, A., (2016). English and German Diction for Singers: A Comparative Approach. Rowman & Littlefield.
- 29) Kudina, O., & Coeckelbergh, M. (2021). "Alexa, define empowerment": voice assistants at home, appropriation and techno performances. *Journal of Information, Communication and Ethics in Society*, 19(2), 299-312.
- 30) Larrouy-Maestri, P. (2020). EVALUATION TOOLS IN SINGING EDUCATION. The Routledge Companion to Interdisciplinary Studies in Singing, Volume II: Education.
- 31) Lebon, R. L. (2006). The Versatile Vocalist: Singing Authentically in Contrasting Styles and Idioms. Scarecrow Press.

- 32) Li, M. (2023). Adapting legal education for the changing landscape of regional emerging economies: A dynamic framework for law majors. *Journal of the Knowledge Economy*, pp. 1–30.
- 33) Lubogo, I. (2023). A Right to Protect Indigenous Languages.
- 34) Mabry, S. (2002). Exploring twentieth-century vocal music: a practical guide to innovations in performance and repertoire. *Oxford University Press*.
- 35) Macy, L. W. (Ed.). (2008). The Grove Book of Opera Singers. Oxford University Press.
- 36) Magnat, V. (2020). The performative power of vocality (p. 260). Taylor & Francis.
- 37) Mahaney, C. L. (2006). Diction for singers: a comprehensive assessment of books and sources. *The Ohio State University*.
- 38) Mann, L., Kiaer, J., & Çakır, E. (2022). Online Language Learning. Springer International Publishing.
- 39) Meurice, A., & Meunier, F. (2018). The TELLOP online training program an analysis of the trainees' perception of the French-speaking module (Doctoral dissertation, master's dissertation. *UCLouvain, Louvainla-Neuve. http://hdl. handle. net/*2078.1/thesis: 14167).
- 40) Miller, R. (1999). Singing Schumann: An interpretive guide for performers. Oxford University Press, USA.
- 41) *Miller, R.* (1996). Diction and Vocal Technique. *On the Art of Singing*, 26–27. https://doi.org/10.1093/acprof:osobl/9780195098259.003.0006
- 42) Miller, R. (1996). On the art of singing. Oxford University Press, USA.
- 43) Miller, R. (2004). Solutions for singers: Tools for performers and teachers. Oxford University Press.
- 44) Nardella, F., (2023). Singing Poems, Reading Songs. Performing Pre-Reform Turkish: the şarkı and the Nineteenth Century Language Debate (Doctoral dissertation, King's College London).
- 45) Nedecky, J., (2023). French Lyric Diction: A Singer's Guide. Oxford University Press.
- 46) Palmer, H.E., (1917). The scientific study & teaching of languages: A review of the factors and problems connected with the learning and teaching of modern languages, with an analysis of the various methods which may be adopted to attain satisfactory results.
- 47) Parker, T., (2015). Tasting French terroir: the history of an idea (Vol. 54). Univ of California Press.
- 48) Reetz, H. and Jongman, A., 2020. Phonetics: Transcription, production, acoustics, and perception. John Wiley & Sons.
- 49) Rosenthal, R. and Flacks, R., 2015. Playing for change: Music and musicians in the service of social movements. Routledge.
- 50) Sansom, R. (Ed.). (2023). Vocal Traditions: Training in the Performing Arts. Taylor & Francis.
- 51) Sell, K., 2017. The disciplines of vocal pedagogy: Towards a holistic approach. Routledge.
- 52) Scott, H.L., 2022. Singing the English: Britain in the French Musical Lowbrow, 1870–1904. Routledge.
- 53) Spence, L. J. (2020). Preserving the Narrative of 20th Century Art Song: A Guide for Instrumental Transcriptions of Vocal Music (Doctoral dissertation, *University of Maryland, College Park*).
- 54) Stepniak, M. (Ed.). (2022). A More Promising Musical Future: Leading Transformational Change in Music Higher Education: CMS Emerging Fields in Music. *Taylor & Francis*.
- 55) Sturtevant, E.H., 1917. *Linguistic change: An introduction to the historical study of language* (Vol. 60). University of Chicago Press.
- 56) Sweeney, E. (2021). Why We Are Singing: A Mixed Methods Study of Teacher Practices, Motivations, and Conceptions of Music Use in World Language Pedagogy.
- 57) Tranel, B. (1987). The sounds of French: An introduction. Cambridge university press.
- 58) Vida, L., (2020). The Search for Canadian Art Song: Developing the Framework for a Database of Art Song by Canadian Composers (Doctoral dissertation, The University of Western Ontario (Canada)).
- 59) Watkins, C. and Scott, L., (2023). From the stage to the studio: How fine musicians become great teachers. Oxford University Press.
- 60) Weinel, J., (2018). Inner sound: altered states of consciousness in electronic music and audio-visual media. Oxford University Press.
- 61) Williams, A., (2020). Constructing musicology. Routledge.
- 62) Ding, W. and Marchionini, G. 1997 A Study on Video Browsing Strategies. Technical Report. University of Maryland at College Park.
- 63) Tavel, P. 2007 Modeling and Simulation Design. AK Peters Ltd.
- 64) Sannella, M. J. 1994 Constraint Satisfaction and Debugging for Interactive User Interfaces. Doctoral Thesis. UMI Order Number: UMI Order No. GAX95-09398., University of Washington.
- 65) Brown, L. D., Hua, H., and Gao, C. 2003. A widget framework for augmented interaction in SCAPE.
- 66) Y.T. Yu, M.F. Lau, "A comparison of MC/DC, MUMCUT and several other coverage criteria for logical decisions", Journal of Systems and Software, 2005, in press.

- 67) Spector, A. Z. 1989. Achieving application requirements. In Distributed Systems, S. Mullende
- 68) Forman, G. 2003. An extensive empirical study of feature selection metrics for text classification. J. Mach. Learn. Res. 3 (Mar. 2003), 1289-1305.
- 69) Fröhlich, B. and Plate, J. 2000. The cubic mouse: a new device for three-dimensional input. In Proceedings of the SIGCHI Conference on Human Factors in Computing Systems.
- 70) Bowman, M., Debray, S. K., and Peterson, L. L. 1993. Reasoning about naming systems.